ecology and environment, inc.
International Specialists in the Environment

5150 East Pacific Coast Highway, Suite 200, Long Beach, CA 90804
Tel: (562) 346-3330, Fax: (562) 346-3201

August 12, 2008

United States Environmental Protection Agency
Emergency Response Section
2250 Obispo Avenue, Suite 101
Signal Hill, California 90755

TDD: 08-07-0005
Project: 002233.0357.01RZ

Attention: Craig Benson, United States Environmental Protection Agency, Federal On-Scene Coordinator

Subject: **Goldome Mill Trip Report**
APN 0569-201-06, San Bernardino County, CA
Latitude: 35°19'45.26"N, Longitude: 115°15'45.28"W

Introduction

On June 2, 2008, Federal On-Scene Coordinator (FOSC) Craig Benson of the United States Environmental Protection Agency (USEPA) Emergency Response Section (ERS) tasked the Ecology and Environment, Inc. Superfund Technical Assessment and Response Team (START) via USEPA Region X to provide technical assistance. Specific START tasks were to create a drum and container inventory and sample abandoned waste containers and potentially contaminated soil at the former Goldome Mill (Goldome) site. The San Bernardino County Fire Department (SBCFD) referred the site to the USEPA ERS after discovering several dozen abandoned, unlabeled 55-gallon drums.

Site Description

Goldome is located on APN 0569-201-06, off of Ivanpah Road, within the Mojave Desert National Preserve, San Bernardino County, California, approximately 30 miles southwest of Primm, Nevada (Attachment A, Figure 1). The nearest highway is I-15 to the north and west. The site is located in a relatively remote area; however, it is likely that trespassers from the nearby preserve may enter the property.

Goldome consists of two main structures, the laboratory and mill buildings, as well as mechanical components consistent with separating gold from mined ore. The laboratory building is located along the site access road approximately 100 yards south of a locked gate (Attachment A, Figure 2). The mill building is located approximately 75 yards southwest of the laboratory building (Attachment A, Figure 2). The mill building is two-storied, consisting of machinery used in separating precious metals from mined ore.

Background

Goldome was discovered by the SBCFD Hazardous Materials Division while inspecting reportedly vandalized transformers. During the inspection, several dozen drums were discovered, some of which were unlabeled and appeared to be leaking. According to SBCFD records, hazardous wastes on-site included: 44 unlabeled, 55-gallon drums and 2, 30-gallon drums of sodium cyanide/sodium carbonate mixture. Additionally, through SBCFD documents, there was evidence that the site contained chemicals utilized in a methamphetamine laboratory.

After Southern California Edison personnel and SBCFD inspectors visited the site on October 7, 2007 and discovered the vandalized transformers, SBCFD contacted the registered site owner, National Gold, Inc., and issued a Notice of Violation (NOV) to Mr. Jim Barrus, Chief Executive Officer (CEO) of National Gold, Inc.

Between January and March 2008, SBCFD contacted Mr. Barrus several times in order for him to comply with the NOV. On April 23, 2008, SBCFD contacted the California Environmental Protection Agency, Department of Toxic Substance Control (DTSC) regarding the site. On May 5, 2008, DTSC suggested to SBCFD that the site be deferred to the USEPA due to lack of funding. On May 15, SBCFD contacted USEPA FOSC Benson requesting assistance for the site.

USEPA FOSCs Craig Benson and Jason Musante visited the site on May 28, 2008. On June 2, 2008 FOSC Benson tasked the START to assist with a chemical inventory and sampling of unmanaged drums and hazardous waste.

START Removal Assessment Activities

On June 6, 2008, START members Trisha Berry and Adam Smith joined USEPA FOSCs Craig Benson and Jason Musante for a site reconnaissance and limited waste sampling event. Based on the May 28, 2008 site visit, USEPA FOSC Benson requested the presence of a San Bernardino County Sheriff, and Ryan Smith joined the team during an initial site walk-through. During the site reconnaissance, waste sampling, and field screening activities, the START utilized a Multi-Rae to conduct air monitoring for volatile organic compound vapors (VOCs), oxygen (O_2), lower explosive limit (LEL), carbon monoxide (CO), and hydrogen cyanide (HCN). Readings of interest are included in the field screening section below.

On June 27, 2008, START member Berry met FOSC Benson and Emergency and Rapid Removal Services (ERRS) Response Manager (RM) Steve Mitchell at the site. The purpose of this site visit was to collect additional samples and for ERRS to conduct a job walk. Three additional samples, GDM-18 through GDM-20, were collected during this site visit and are discussed in the sections below.

Site Reconnaissance

During the June 6, 2008 site reconnaissance, START members Smith and Berry and FOSC Musante conducted a complete site reconnaissance. The following observations were made during the site reconnaissance.

- Four damaged transformers were observed south/ southwest of the laboratory building.

During the site visit, the transformers were empty and the soil around and downgradient of the transformers appeared stained.

- The mill building contained several dozen abandoned, labeled and unlabeled storage containers ranging from 1-gallon metal paint cans to an approximately 350-gallon tank labeled 'CYANIDE POISON'.
- In the southwestern corner of the ground floor of the mill building, chemicals (muriatic acid, sodium hydroxide) and other materials were found that appeared to be part of a clandestine methamphetamine laboratory.
- A Sea/ Land container was located adjacent to the mill building. The Sea/ Land container housed several 1-liter glass bottles of powdery mixtures, two 55-gallon drums, one labeled 'Cyanogran', as well as several 50-pound bags of lime. This container appeared to have been a former laboratory area.
- Several dozen 55-gallon drums are located approximately 30 yards south of the Sea/ Land container. Thirty-seven of these drums appear to be filled with rock material, are lying on their sides, and stacked two-high.
- Adjacent to the rock-filled drums are:
    - 5, 55-gallon black poly drums, two labeled 'Hydrochloric Acid', 3 unlabeled
    - 2, 55-gallon drums labeled 'flammable liquid'
    - 5, 55-gallon drums that appeared to contain waste oil with one drum labeled 'Acetone'
- Drum 34 was empty
- Approximately 150, 5-gallon buckets and 21 drums containing what appeared to be tar were present on an adjacent, but associated property. Some of these drums were labeled, "Polyester Resin, UN1866, Resin Solution, flash point between 73 and 100 degrees Fahrenheit."

Sample Collection and Field Screening

On June 6, 2008, following the comprehensive site reconnaissance, the START labeled all containers that may contain hazardous waste and created a drum and container inventory. A copy of the drum and container inventory is provided in Attachment B.

On June 6 and 28, 2008, the START collected samples for submission to an analytical laboratory. A description of the samples collected is provided in Table 1 below. The samples were collected in accordance with two emergency response quality assurance sampling plans (ERQASPs).

Table 1 – Description of Analytical Samples
Goldome Mine, San Bernardino County, CA
July 2008

Sample ID	Sample Location Description	Analytical Request
GDM-1	Composite soil sample collected near laboratory building and transformers	PCBs by USEPA Method 8082A TTLC Metals by USEPA Method 6010B

Table 1 – Description of Analytical Samples
Goldome Mine, San Bernardino County, CA
July 2008

Sample ID	Sample Location Description	Analytical Request
GDM-2	Composite soil sample collected from laboratory building drainage	PCBs by USEPA Method 8082A TTLC Metals by USEPA Method 6010B
GDM-3	Ball Mill Conveyor Tunnel – white powder	Cyanide by USEPA 9010B/9014 pH by USEPA 9045C
GDM-4	Drum 29: Cyanogran drum in Sea/ Land Container	Cyanide by USEPA 9010B/9014 pH by USEPA 9045C
GDM-5	Drums 5 – 10 (composite). These are the drums potentially associated with the clandestine drug laboratory operation.	pH by USEPA Method 150.2
GDM-6	Drum 41	PCBs by USEPA Method 8082A TTLC Metals by USEPA Method 6010B
GDM-7	Black, carbon-like, rocks in pile above mill bldg	TTLC Metals by USEPA Method 6010B
GDM-8	Drum 32 – black drum that was believed to be hydrochloric acid	pH by USEPA Method 150.2 VOCs by USEPA 8260C Cyanide by USEPA Method 9010B/9014
GDM-8B	Drum 35	Cyanide by USEPA 9010B/9014
GDM-8C	Drum 36	Cyanide by USEPA 9010B/9014
GDM-9	Drum 24 (labeled Geobrom 5500)	pH by USEPA Method 9045C
GDM-10	Drum 26 (labeled Formula 1156)	pH by USEPA Method 150.2
GDM-11	Tailings pile sample – below mill bldg	TTLC Metals by USEPA 6010B Mercury by USEPA 7471A
GDM-12	Drums 17 & 20 (powdery grey/ white substance)	Cyanide by USEPA 9010B/9014 TTLC Metals by USEPA 6010B pH by USEPA 9045C
GDM-13	Tailings pile sample – below mill bldg	TTLC Metals by USEPA 6010B Mercury by USEPA 7471A
GDM-14	Composite Tar sample from adjacent property	Ignitability by USEPA Method 1030
GDM-15	Duplicate of 11 and 13 – revised sample jar to be MS/MSD volume for GDM 11	Removed from analysis request

Table 1 – Description of Analytical Samples
Goldome Mine, San Bernardino County, CA
July 2008

Sample ID	Sample Location Description	Analytical Request
GDM-16	Potential asbestos in mill bldg	Asbestos by PLM 600/R-93-116
GDM-17	Tailings pile – 2nd sample location	TTLC Metals by USEPA 6010B Mercury by USEPA 7471A
GDM-18	Composite sample from float vats inside and upstairs in mill buildings	TTLC Metals by USEPA 6010B Mercury by USEPA 7471A Cyanide by USEPA 9010B/9014
GDM-19	Composite sample from 2 approximately 30-gallon drums located one level above the mill building. Potentially identified as refractory dust.	TTLC Metals by USEPA 6010B Mercury by USEPA 7471A Cyanide by USEPA 9010B/9014
GDM-20	Re-sample of reactive drum number 32	TTLC Metals by USEPA 6010B Mercury by USEPA 7470A

Notes:
PCB = polychlorinated biphenyls
MS/ MSD = matrix spike/ matrix spike duplicate
TTLC = total threshold limit concentration
VOCs = volatile organic compounds
PLM = polarized light microscopy

A limited amount of field screening for hazard classification was conducted during sample collection. The START conducted pH tests on a limited number of drums inside the mill building. The pH levels ranged from 2 to 12. A summary of the limited hazard classification results is provided below.

- GDM-5 sample indicated non-flammable liquid with pH=2
- VOCs were present at 150 parts per million (ppm) while opening drum 35
- Hydrogen Cyanide was present at 160 ppm while opening drum 32

Analytical Data
A total of 20 samples were submitted to APPL Laboratory in Fresno, California for analysis of pH, cyanide, metals, mercury, polychlorinated biphenyls (PCBs), volatile organic compounds (VOCs), and ignitability/ flashpoint. The samples were transferred, under proper chain-of-custody protocols, to the laboratory the day after they were collected due to the remoteness of the site. One sample was sent to Lab/Cor in Portland, Oregon for asbestos analysis. Table 2 below summarizes the analytical request for this site.

Final laboratory data packages have been validated by a START chemist following *Quality Assurance/Quality Control Guidance for Removal Activities, Sampling QA/QC Plan Validation Procedures*, OSWER Directive 9360.4-1, April 1990. The START Data Validation Reports are included as Attachment C. Summary sample results are presented in Tables 3 through 5 below, and sample locations are shown on Attachment 1, Figure 3 through 5.

Table 2 – Summary of Analysis
Goldome Mine, San Bernardino County, CA
July 2008

Sample ID	Matrix	pH	Flash point	VOCs	Cyanide	Metals	Mercury	PCBs	Asbestos
GDM-1	Soil					X		X	
GDM-2	Soil					X		X	
GDM-3	Solid	X			X				
GDM-4	Solid	X			X				
GDM-5	Liquid	X							
GDM-6	Oily Liquid					X		X	
GDM-7	Solid					X			
GDM-8	Liquid	X		X	X				
GDM-8B	Liquid				X				
GDM-8C	Liquid				X				
GDM-9	Solid	X							
GDM-10	Liquid	X							
GDM-11	Soil					X	X		
GDM-12	Solid	X			X	X			
GDM-13	Soil					X	X		
GDM-14	Oily Tar		X						
GDM-16	Solid								X
GDM-17	Soil					X	X		
GDM-18	Solid				X	X			
GDM-19	Solid				X	X			
GDM-20	Liquid					X			
Total Analysis		7	1	1	8	11	3	3	1

No asbestos was detected in the sample collected at the site. One sample, GDM-8, was submitted for VOC analysis. Three samples, GDM-1, GDM-2, and GDM-6 were submitted for PCB analysis. No VOCs or PCBs were detected in any of the samples submitted.

Seven of the 20 samples were submitted for pH analysis. Of the seven samples submitted, 4 samples had a pH of less than 2 or greater than 12.5, which indicates the Resource Conservation and Recovery Act (RCRA) waste characteristic of corrosivity. See Table 3 below for a summary of the pH sample results.

Table 3 – Corrosivity Results
Goldome Mine, San Bernardino County, CA
July 2008

Sample ID	Matrix	pH	RCRA Corrosive*
GDM-3	Solid	12.56	**Yes**
GDM-4	Solid	12.33	No
GDM-5	Liquid	0.13	**Yes**
GDM-8	Liquid	<2	**Yes**
GDM-9	Solid	4.42	No
GDM-10	Liquid	13.87	**Yes**
GDM-12	Solid	10.3	No

* = The regulations describing the RCRA corrosivity characteristic are found at 40 CFR 261.22.

Of the11 samples submitted for metals analysis, 5 samples and one duplicate were soil. Two samples were an oily liquid (GDM-6) and a waste solid collected from drums 17 and 20 (GDM-12). One sample for metals was a composite collected from the float vats. One sample was collected from two drums of assumed "refractory dust" located near the "Grizzly." The last sample for metals analysis was collected from reactive drum #32. The metals results are summarized in Table 4 below. Metals data were compared to both total threshold limit criteria (TTLC) and toxicity characteristic leaching procedure (TCLP) criteria. Three of the 11 samples submitted for metals analysis had concentrations greater than the TTLC criteria. GDM-11, a soil sample collected from a suspected tailings pile, contained copper at 2,690 milligrams per kilogram (mg/kg). GDM-12, collected as a composite sample from drums 17 and 20, contained silver at 1,160 mg/kg. GDM-12 was observed to be a powdery, grayish-white sample in the field. GDM-18 was collected on June 27, 2008 from float vats located on the 2nd floor of the mill building.

Table 4 – Metals Results
Goldome Mine, San Bernardino County, CA
July 2008

Metal	TTLC	TCLP	Soil						Oily Liquid	Solid[1]	Float Vat Solids	Drummed Solids	Reactive Drum #32
			GDM-1	GDM-2	GDM-7	GDM-11[2]	GDM-13[2]	GDM-17	GDM-6	GDM-12	GDM-18	GDM-19	GDM-20
	mg/kg	mg/L	(mg/kg)						mg/L	mg/kg	mg/kg	mg/kg	mg/L
Antimony	500	---	1.5 J	1.0 J	1.6 J	4.3 J	5.4 J	1.9 J	<0.050	0.83 J	3.4	< 0.5	< 0.05
Arsenic	500	5.0	19.6	12.6	3.6	21.4	24.4	26.9	<0.050	< 0.5	32.3	< 0.5	1.02
Barium	10,000[b]	100	304	138	151	4800 J	4440	500	<0.050	260	434 J	133 J	< 0.05
Beryllium	75	---	< 0.2	< 0.2	< 0.2	0.36	0.38	0.26	< 0.020	< 0.2	0.32	< 0.2	< 0.02
Cadmium	100	1.0	4.5	1.3	0.7	0.77 J	0.5 J	1.9	<0.050	0.59	26.2	0.77	< 0.05
Chromium	2,500	5	30.8	39	26.6	12.1	12.7	14.8	<0.050	29.1	76.3	23.3	0.15
Cobalt	8,000	---	18.1	13.9	15.6	2.8	3.3	18.6	<0.050	9.7	17.4	5.4	< 0.05
Copper	**2,500**	---	185	92	20.1	**2690 J**	2490	526	<0.050	27.3	2020	10.1	0.127
Lead	1,000	5.0	384	165	102	283 J	229	550	<0.050	21.8	**9360 J**	13 J	0.313
Mercury	20	0.2	NA	NA	NA	0.11	NA	< 0.1	NA	NA	4.3	0.13	2.13 J
Molybdenum	3,500	---	2.6	0.65	3.5	3.7	3.2	3.6	<0.050	3.2	158	2.2	< 0.05
Nickel	2,000	---	18.1	19.2	44.2	6.6	7.0	9.7	<0.050	11	35.6	9.4	0.128
Selenium	100	1.0	< 0.5	0.76 J	< 0.5	0.80 J	< 0.5	< 0.5	<0.050	< 0.5	< 0.5	< 0.5	0.161 J
Silver	**500**	5	4.9	< 0.1	< 0.5	4.5	3.6	1.7	<0.050	**1160**	132	0.57	< 0.01
Thallium	700	---	< 2.0	< 2.0	2.8	< 2.0	< 2.0	< 2.0	< 0.50	< 2.0	< 2.0	< 2.0	< 0.05
Vanadium	2,400	---	71.7	65.5	94.7	16.2	17.9	22.1	< 0.50	162	7.3	113	< 0.05
Zinc	5,000	---	336	109	54.8	109	130	161	17.2	46	1410	18.7	< 0.5

[1] GDM-12 was a composite solid sample collected from drums 17 and 20.
TTLC = Total Threshold Limit Criteria. Metals detected above this concentration may indicate a California Hazardous Waste is present
TCLP = Toxicity Characteristic Leaching Procedure. Metals detected above these concentrations may indicate a Federal Hazardous Waste
NA = Not Analyzed
[2]GDM-11 and GDM-13 are duplicates

Of the 8 samples analyzed for cyanide only three samples had concentrations that may be of interest for planning of disposal options. GDM-4, collected from a drum labeled "cyanogran,"contains approximately 38.5% total cyanide GDM-12, a powdery gray white substance collected from drums 17 and 20, contains 0.65 mg/kg of cyanide. Lastly, GDM-18, a composite sample of float vat waste, contained 8.9 mg/kg of cyanide. Table 5 presents the cyanide results.

Table 5 – Cyanide Results
Goldome Mine, San Bernardino County, CA
July 2008

Sample ID	Matrix	Cyanide (mg/kg or mg/L)
GDM-3	Solid	< 0.50 UJ
GDM-4	Solid	**38.5% J**
GDM-8*	Liquid	< 0.01 UJ
GDM-8B*	Liquid	0.006 J
GDM-8C*	Liquid	0.0053 J
GDM-12	Solid	**0.65 J**
GDM-18	Solid	**8.9 J**
GDM-19	Solid	< 0.50

GDM8, 8B, 8C, and 12 were re-analyzed due to potential cross contamination from GDM-4

Sample ID GDM-14, a tar-like sample from the adjacent but related property, was found to be ignitable, energetic & vigorous fast burning.

Conclusion

START was tasked by FOSC Benson to provide technical assistance during an emergency response at Goldome in the Mojave National Preserve, San Bernardino County, California. Based on the analytical data, RCRA and California Hazardous Wastes are present at Goldome. This determination was made based on the RCRA corrosive characteristic and comparing the copper, lead, and silver data from the mine tailings piles, drums 17and 20, and drums of "refractory dust" to the California TTLC criteria. Summary data that indicates hazardous wastes are present on site is presented below in tabular format. Based on the site location and observed condition, it is likely that trespassers enter the site. The wastes are accessible to these trespassers and no site security is present.

Summary of Hazardous Waste Samples
Goldome Mine, San Bernardino County, California
July 2008

Sample ID	Matrix	pH	RCRA Corrosive *	RCRA Ignitable	Cyanide	Lead	Copper	Silver
GDM-3	Solid	12.56	**Yes**	NA	< 0.50	NA	NA	NA
GDM-4	Solid	2.33	No	NA	**38.5%**	NA	NA	NA
GDM-5	Liquid	0.13	**Yes**	NA	NA	NA	NA	NA
GDM-8	Liquid	<2	**Yes**	NA	< 0.01	NA	NA	NA
GDM-10	Liquid	13.87	**Yes**	NA	NA	NA	NA	NA
GDM-11	Solid	NA	No	NA	NA	283	**2690**	4.5
GDM-12	Soild	10.3	No	NA	**0.65**	21.8	27.3	**1160**
GDM-14	Tar-like	NA	NA	**Yes**	NA	NA	NA	NA
GDM-18	Solid	NA	NA	NA	**8.9**	**9360**	2020	132

All results in milligrams per kilogram (mg/kg) for solid samples and milligrams per liter (mg/L) for liquid samples
[1] GDM-12 was a composite solid sample collected from drums 17 and 20.
TTLC = Total Threshold Limit Criteria. Metals detected above this concentration may indicate a California Hazardous Waste is present
The TTLC threshold for copper is 2,500 mg/kg
The TTLC threshold for silver is 500 mg/kg
NA = not analyzed
Sample ID GDM-14, a tar-like sample from the adjacent but related property, was found to be "ignitable, energetic & vigorous fast burning."

It is anticipated that future work at the site will be conducted under a separate TDD. If you have any questions, please feel free to contact this office.

Respectfully submitted,

Trisha Berry
START Project Manager

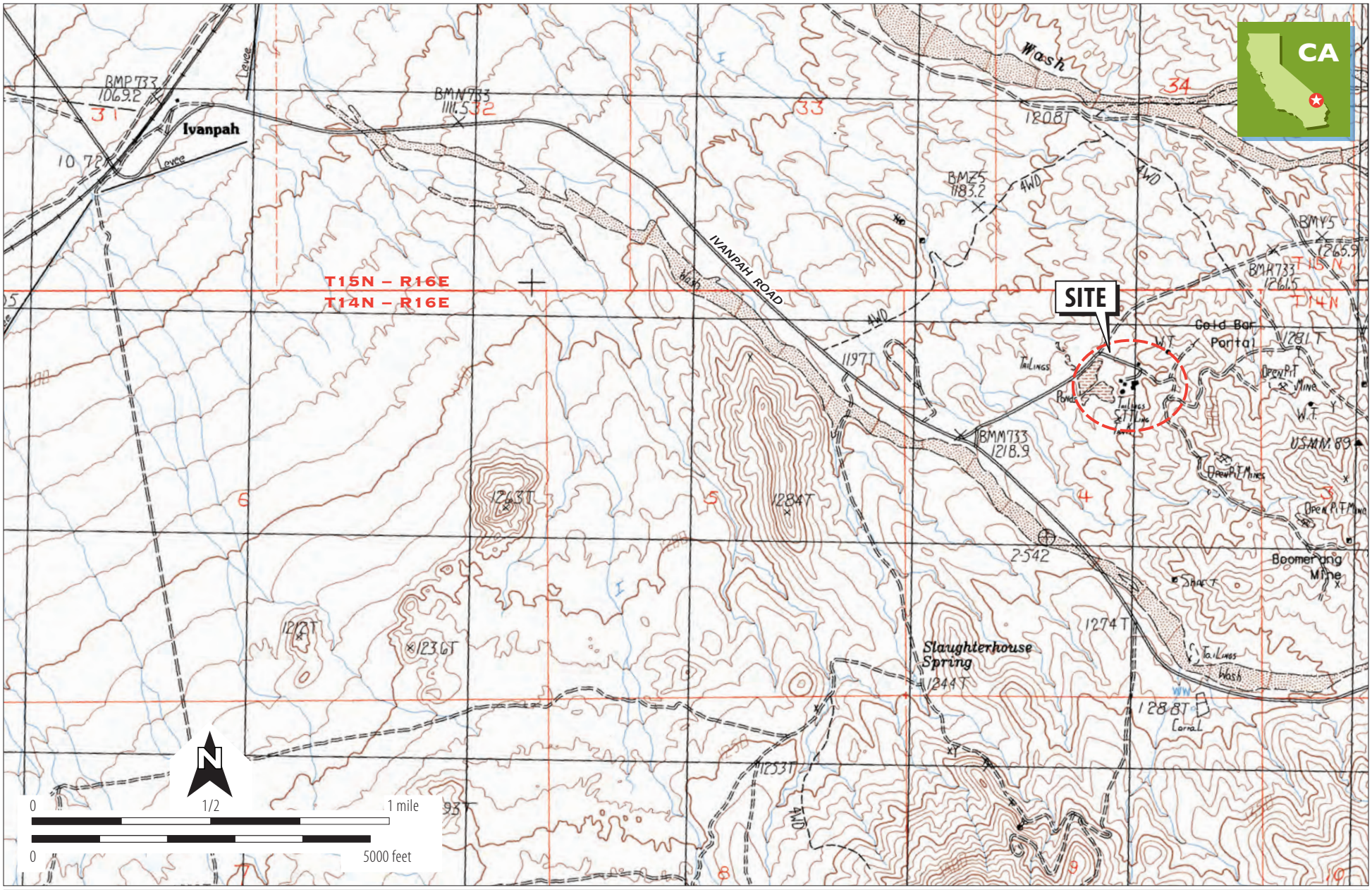
Attachment A: Figures
- Figure 1: Site Location Map
- Figure 2: Mill Building Area Sampling Locations
- Figure 3: Site Features
- Figure 4: Laboratory Building Sampling Locations
- Figure 5: Other Sample Locations

Attachment B: Drum and Container Inventory
Attachment C: Validated Data Sheets

cc: Electronic Deliverable System (EDS) & START project file

ATTACHMENT A: FIGURES

Base map source: USGS 1:24,000 Ivanpah, CA quad (provisional ed. 1983)



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002233.0328.SGRZ.a (START 3 CD Archives - Vol 3) 07/11/2008
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Figure 1

Site Location Map

Goldome Mill, Mojave National Preserve

San Bernardino County, California

Air photo source: Google Earth 2008

Figure 2

Site Features

Goldome Mill, Mojave National Preserve

San Bernardino County, California

002233.0328.SGRZ.b (START 3 CD Archives - Vol 3) 07/08/2008
TDD: (to be determined) / Project No.: 002233.0328.SGRZ

Aerial photo source: Google Earth 2008

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002233.0328.SGRZ.c (START 3 CD Archives - Vol 3) 08/12/2008
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Figure 3

Mill Building Area Sampling Locations

Goldome Mill, Mojave National Preserve

San Bernardino County, California

Aerial photo source: Google Earth 2008

Ecology and Environment, Inc.

002233.0328.SGRZ.d (START 3 CD Archives - Vol 3) 07/11/2008
TDD: 08-07-0005 / Project No.: 002233.0357.01RZ

Figure 4

Laboratory Building Sample Locations

Goldome Mill, Mojave National Preserve

San Bernardino County, California

Aerial photo source: Google Earth 2008

Ecology and Environment, Inc.

002233.0328.SGRZ.e (START 3 CD Archives - Vol 3) 08/12/2008
TDD: 08-07-0005 / Project No.: 002233.0357.01RZ

Figure 5

Other Sample Locations

Goldome Mill, Mojave National Preserve

San Bernardino County, California

ATTACHMENT B: CONTAINER INVENTORY

DRAFT – DRUM AND CONTAINER INVENTORY
Goldome Mine, San Bernardino County, CA
July 2008

ID	Description	Location
1	transformer: lying on its side to the northwest of the empty lab building, closest to the access road, empty	Near laboratory bldg
2	transformer: Lying on its side on the northwest corner of the empty lab building, empty	
3	transformer: Upright standing between two existing utility poles next to lab building, empty	
4	transformer: Older model transformer standing upright on the southwest corner of the lab building, empty	
5	drum: 55-gal blue poly, no lid, 1/2 full of yellowish liquid; pH 2. potentially associated with clandestine drug operation	
6	drum: 55-gal blue poly, covered, empty. potentially associated with clandestine drug operation	
7	drum: 55-gal blue poly, 1/2 full, appears unopened, pungent acidic odor. potentially associated with clandestine drug operation	
8	drum: 55-gal blue poly, 1/2 full, appears unopened, pungent acidic odor. potentially associated with clandestine drug operation	
9	drum: 55-gal blue poly, 1/3 full, appears unopened, pungent acidic odor. potentially associated with clandestine drug operation	
10	drum: 20-gal opaque plastic/poly drum, 1/4 full. potentially associated with clandestine drug operation	
11	5-gal metal black drum, approximately 1/2 full	
12	16-gal blue Chevron drum, labeled 'transmission fluid', estimated quantity of liquid inside to be 5 gallons	
13	55-gal light blue poly, approximately 1/3 full	
14	5-gal bucket, blue, Chevron labeled 'torque fluid', appears full	
15	140-lb drum labeled 'Garrett-Callahan Co formula 1154', also indicates irritation to eyes if exposed; aqueous solution; labeled 'sodium hexamethaphosphate' with CAS 65915-31-1 and 'sodium polyacrylate' with CAS 9003-04-7	Inside mill bldg
16	55-gal green metal drum, labeled 'Aromatic 150' with 'Product number 602024' and 'Lot number PX016809782'; 'Van Waters and Rogers, Inc. Telephone 206 889 3400'	
17	55-gal unlabeled, blue poly; appear to contain solids - very heavy, cannot move easily	
18	55-gal unlabeled, blue poly; appear to contain solids - very heavy, cannot move easily	
19	55-gal unlabeled, blue poly; appear to contain solids - very heavy, cannot move easily	
20	55-gal unlabeled, blue poly; appear to contain solids - very heavy, cannot move easily	
21	55-gal unlabeled, blue poly; appear to contain solids - very heavy, cannot move easily	
22	55-gal unlabeled, blue poly; appear to contain solids - very heavy, cannot move easily	
23	55-gal light blue poly, no top, unlabeled; approximately 10 gallons of liquid inside; appears to be an oily substance	
24	55-gal blue metal drum, labeled 'Geobrom™ 5500', oxidizer, '1,3-dibromo-5,5-dimethylhydantoin', with CAS 77-48-5, and UN # 1479 appears to be a white, powdery substance; drum approximately 1/2 full.	
25	transformer: All State Acceptance Corp #001054', 'Westinghouse Catalog # 10C9B-071', 'Style # 1353499A'; empty	
26	145-lb drum labeled 'Garrett-Callahan Co. aqueous solution of caustic soda, corrosive, formula 1156', telephone 415-697-5811	
27	55-gal black poly, labeled 'Sodium Hydroxide'; appears unopened	
28	55-gal blue metal drum, open, poison, labeled 'Sodium Cyanide'	Inside Sea/ Land Container
29	55-gal black metal drum, closed, labeled 'Cyanogran' with CAS 143-33-9 (last number on the CAS hard to read); 200lbs; 'Lot # M090895428S', and 'Drum filled 9/13/95'	

DRAFT – DRUM AND CONTAINER INVENTORY
Goldome Mine, San Bernardino County, CA
July 2008

ID	Description	Location
30	55-gal metal, rusted, unknown, unlabeled; approximately 3/4 full; open spout	Outside of mill bldg
31	55-gal metal, rusted, unknown, unlabeled	
32	55-gal black poly, labeled 'Hydrochloric Acid; appears unopened - After START opened it gave solvent like characteristics and reacted with other "hydrochloric acid" labeled drums. May be water reactive. pH paper indicates strong acid.	South side of mill building/ south side of Sea/ Land Container
33	55-gal black poly, labeled 'Hydrochloric Acid; appears unopened	
34	55-gal black poly, label worn off, appear similar to drums 32, 33	
35	55-gal black poly, label worn off, appear similar to drums 32, 33, 34	
36	55-gal black poly, label worn off, appear similar to drums 32, 33, 34, 35	
37	55-gal metal, rusted, appears unopened; faded label, unreadable label	
38	55-gal metal, rusted, drum appears lying on its side, labeled 'flammable liquid'	
39	55-gal metal, slightly rusted, labeled 'Tanner Systems, Inc. St Cloud, MN, Flammable Liquid'	
40	55-gal green metal drum, appears to be filled with waste oil, label reads 'Acetone'	
41	55-gal rusted black/orange drum, appears to be filled with waste oil	
42	55-gal rusted black/orange drum, appears to be filled with waste oil	
43	55-gal rusted red drum, appears to be filled with waste oil	
44	55-gal black metal drum, heavy caking of oily substance on lid and around sides	
45	5-gal blue plastic bucket, faded label 'Oil AW' and 'Chevron, located amongst loose pile of black rock material approximately 50 m southwest of 24 55-gal drums of shiny, black rocks	
46	approximately 300-gal blue metal tank on second floor, labeled 'CYANIDE POISON'	Inside mill bldg
47	10-gal steel container labeled 'Nitric Acid' and '42 BE', corrosive, product # 193914, made by 'Brenntag Pacific, Inc. Santa Fe Springs, CA	
48	5-gal bucket labeled 'Oxalic Acid'; hand-written label	
49	5-gal white bucket labeled 'Butyl diglyme; approximately 2/3 full; CAS 112-73-2; hand-written label	
50	5-gal black container labeled 'Butyl diglyme, Ferro Corporation, Zachary, Louisiana, telephone 226-654-6801	
51	5-gal bucket labeled 'tainted butyl diglyme plue HCl'; hand-written label; approximately 1/3 full	
52	5-gal bucket, unreadable label, hand-written label	
53	2 5-gal buckets labeled 'RO water purification, Filtrapure BW, Antiscalent'	
54	2 5-gal buckets, unlabeled, located adjacent to drum #9	
**	37 individual 55-gal drums lying on their sides and stacked two-high, appear to be filled with rock material	S side of mill bldg/ S side of Sea/ Land container
**	18 individual 55-gal drums adjacent to conveyor belt east of mill bldg, up the hill, appear to be filled with solid rock material	Outside – East of Conveyor Belt
**	2 individual 40-gal drums included with the 18 55-gal drums adjacent to conveyor belt	
**	2 30-gal drums of greyish-black dust. These drums are located near the "grizzley" and are co-located with drums containing other materials that have already been included on this inventory. Potential refractory dust.	
**	24 individual 55-gal drums located above the crusher, no lids; all containing black, shiny rocks	Above the crusher
**	6 1-gal paint cans	Inside mill bldg
**	2 1-gal square steel cans	
**	10 gallons or less of muriatic acid potentially associated with clandestine drug lab operations. potentially associated with clandestine drug operation	
**	150 5-gallon buckets of tar-like substance on adjacent/ associated property (may be “polyester resin”	Adjacent property

DRAFT – DRUM AND CONTAINER INVENTORY
Goldome Mine, San Bernardino County, CA
July 2008

ID	Description	Location
**	21 drums of tar-like substance on adjacent/ associated property. Some of the drums are labeled “polyester resin; UN1866, Resin solution, flash point 73 – 100 °F”	Adjacent property

ATTACHMENT C: VALIDATED DATA SHEETS

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-1
Sample Collection Date: 06/05/08

ARF: 56245
APPL ID: AX79177

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	1.5 J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	19.6	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	304	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Beryllium (Be)	0.058 J	0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	4.5	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	30.8	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	18.1	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	185	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Lead (Pb)	384	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Molybdenum (Mo)	2.6	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	18.1	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	4.9	0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	Not detected	2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	71.7	0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	336	5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME

Sample ID: GDM-2
Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79178

Method	Analyte	Result		PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	1.0	J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	12.6		0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	138		0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Beryllium (Be)	Not detected		0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	1.3		0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	39.0		0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	13.9		0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	92.0		0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Lead (Pb)	165		0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Molybdenum (Mo)	0.65		0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	19.2		0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	0.76	J	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	Not detected		0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	Not detected		2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	65.5		0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	109		5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-6
Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79182

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Antimony (Sb)	Not detected	50.0	18.00	ug/L	10	06/10/08	06/11/08
6010B/3010A	Arsenic (As)	Not detected	50.0	25.00	ug/L	10	06/10/08	06/11/08
6010B/3010A	Barium (Ba)	Not detected	50.0	7.50	ug/L	10	06/10/08	06/11/08
6010B/3010A	Beryllium (Be)	Not detected	20.0	2.40	ug/L	10	06/10/08	06/11/08
6010B/3010A	Cadmium (Cd)	Not detected	50.0	5.10	ug/L	10	06/10/08	06/11/08
6010B/3010A	Chromium (Cr)	32.8 J	50.0	14.00	ug/L	10	06/10/08	06/11/08
6010B/3010A	Cobalt (Co)	8.5 J	50.0	6.30	ug/L	10	06/10/08	06/11/08
6010B/3010A	Copper (Cu)	30.3 J	50.0	9.70	ug/L	10	06/10/08	06/11/08
6010B/3010A	Lead (Pb)	Not detected	50.0	16.00	ug/L	10	06/10/08	06/11/08
6010B/3010A	Molybdenum (Mo)	26.2 J	50.0	5.30	ug/L	10	06/10/08	06/11/08
6010B/3010A	Nickel (Ni)	42.5 J	50.0	3.90	ug/L	10	06/10/08	06/11/08
6010B/3010A	Selenium (Se)	Not detected	50.0	32.00	ug/L	10	06/10/08	06/11/08
6010B/3010A	Silver (Ag)	Not detected	10.0	2.50	ug/L	10	06/10/08	06/11/08
6010B/3010A	Thallium (Tl)	Not detected	50.0	18.00	ug/L	10	06/10/08	06/11/08
6010B/3010A	Vanadium (V)	Not detected	50.0	9.70	ug/L	10	06/10/08	06/11/08
6010B/3010A	Zinc (Zn)	17200	500.0	23.00	ug/L	10	06/10/08	06/11/08

7/15/08

J = Estimated value.

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-7
Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79183

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	1.6 J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	3.6	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	151	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Beryllium (Be)	Not detected	0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	0.70	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	26.6	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	15.6	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	20.1	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Lead (Pb)	102	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Molybdenum (Mo)	3.5	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	44.2	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	Not detected	0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	2.8	2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	94.7	0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	54.8	5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens
Project: GOLDOME

ARF: 56245

Sample ID: GDM-11

APPL ID: AX79189

Sample Collection Date: 06/05/08

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	4.3 J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	21.4	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	~~2760 E~~ MS	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	4800 J	10.0	1.00	mg/kg	20	06/11/08	06/12/08
6010B/3050B	Beryllium (Be)	0.36	0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	0.77 J	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	12.1	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	2.8	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	~~1690 E~~ MS	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	2690 J	10.0	1.80	mg/kg	20	06/11/08	06/12/08
6010B/3050B	Lead (Pb)	283 J	0.5	0.09	mg/kg	1	06/11/08	06/11/08
7471A/7471A	Mercury	0.11	0.1	0.02	mg/Kg	1	06/11/08	06/16/08
6010B/3050B	Molybdenum (Mo)	3.7	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	6.6	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	0.80 J	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	4.5	0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	Not detected	2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	16.2	0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	109	5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

E = The reported value exceeds linear range.

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-12
Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79190

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	0.83 J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	Not detected	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	260	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Beryllium (Be)	0.17 J	0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	0.59	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	29.1	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	9.7	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	27.3	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Lead (Pb)	21.8	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Molybdenum (Mo)	3.2	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	11.0	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	1160	2.5	1.00	mg/kg	25	06/11/08	06/13/08
6010B/3050B	Silver (Ag)	~~963 E~~ (ais)	0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	1.4 J	2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	162	0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	46.0	5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

J = Estimated value.
E = The reported value exceeds linear range.

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-13
Sample Collection Date: 06/05/08

ARF: 56245
APPL ID: AX79191

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	5.4 J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	24.4	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	4440	10.0	1.00	mg/kg	20	06/11/08	06/12/08
6010B/3050B	Barium (Ba)	~~2700 E~~	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Beryllium (Be)	0.38	0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	0.50 J	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	12.7	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	3.3	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	2490	10.0	1.80	mg/kg	20	06/11/08	06/12/08
6010B/3050B	Copper (Cu)	~~1580 E~~	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Lead (Pb)	229	0.5	0.09	mg/kg	1	06/11/08	06/11/08
7471A/7471A	Mercury	0.14	0.1	0.02	mg/Kg	1	06/11/08	06/16/08
6010B/3050B	Molybdenum (Mo)	3.2	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	7.0	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	3.6	0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	Not detected	2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	17.9	0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	130	5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

E = The reported value exceeds linear range.

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APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-17
Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79193

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3050B	Antimony (Sb)	1.9 J	0.5	0.10	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Arsenic (As)	26.9	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Barium (Ba)	500	2.5	0.25	mg/kg	5	06/11/08	06/12/08
6010B/3050B	Barium (Ba)	~~445 E~~ (rus)	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Beryllium (Be)	0.26	0.2	0.04	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cadmium (Cd)	1.9	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Chromium (Cr)	14.8	0.5	0.03	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Cobalt (Co)	18.6	0.5	0.05	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Copper (Cu)	526	2.5	0.45	mg/kg	5	06/11/08	06/12/08
6010B/3050B	Copper (Cu)	~~453 E~~ (rus)	0.5	0.09	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Lead (Pb)	550	2.5	0.45	mg/kg	5	06/11/08	06/12/08
6010B/3050B	Lead (Pb)	~~463 E~~ (rus)	0.5	0.09	mg/kg	1	06/11/08	06/11/08
7471A/7471A	Mercury	0.092 J	0.1	0.02	mg/Kg	1	06/11/08	06/16/08
6010B/3050B	Molybdenum (Mo)	3.6	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Nickel (Ni)	9.7	0.5	0.07	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Silver (Ag)	1.7	0.1	0.04	mg/kg	1	06/11/08	06/12/08
6010B/3050B	Thallium (Tl)	Not detected	2.0	0.21	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Vanadium (V)	22.1	0.5	0.06	mg/kg	1	06/11/08	06/11/08
6010B/3050B	Zinc (Zn)	161	5.0	1.15	mg/kg	1	06/11/08	06/11/08

7/15/08

J = Estimated value.
E = The reported value exceeds linear range.

Printed: 06/27/08 3:11:50 PM
APPL-F1-SC-NoMC-REG MDLs

Metals Analysis

Ecology & Environment
5150 Pacific Coast Hwy, ste 200
Long Beach, CA 90804

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: TRISHA BERRY/MINDY SONG
Project: GOLDOME/TBD
Sample ID: GDM-18
Sample Collection Date: 06/27/08

ARF: 56431
APPL ID: AX80250

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
(Moisture testing was not done on this sample.)								
6010B/3050B	Antimony (Sb)	3.4	0.5	0.10	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Arsenic (As)	32.3	0.5	0.09	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Barium (Ba)	~~372 E~~ (MS)	0.5	0.05	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Barium (Ba)	434 J	25.0	2.50	mg/kg	50	07/02/08	07/03/08
6010B/3050B	Beryllium (Be)	0.32	0.2	0.04	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Cadmium (Cd)	26.2	0.5	0.03	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Chromium (Cr)	76.3	0.5	0.03	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Cobalt (Co)	17.4	0.5	0.05	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Copper (Cu)	~~1930 E~~ (MS)	0.5	0.09	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Copper (Cu)	2020	25.0	4.50	mg/kg	50	07/02/08	07/03/08
6010B/3050B	Lead (Pb)	~~7320 E~~ (MS)	0.5	0.09	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Lead (Pb)	9360 J	25.0	4.50	mg/kg	50	07/02/08	07/03/08
7471A/7471A	Mercury	4.3	1.0	0.20	mg/Kg	10	07/03/08	07/07/08
6010B/3050B	Molybdenum (Mo)	158	0.5	0.07	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Nickel (Ni)	35.6	0.5	0.07	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Silver (Ag)	~~118 E~~ (MS)	0.1	0.04	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Silver (Ag)	132	5.0	2.00	mg/kg	50	07/02/08	07/03/08
6010B/3050B	Thallium (Tl)	Not detected	2.0	0.21	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Vanadium (V)	7.3	0.5	0.06	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Zinc (Zn)	~~1100 E~~ (MS)	5.0	1.15	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Zinc (Zn)	1410	250.0	58.00	mg/kg	50	07/02/08	07/03/08

8/6/08

E = The reported value exceeds linear range.

Printed: 07/08/08 9:18:18 AM

PL-F1-SC-MCRes/MCPQL-REG MDLs

Metals Analysis

Ecology & Environment
5150 Pacific Coast Hwy, ste 200
Long Beach, CA 90804

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: TRISHA BERRY/MINDY SONG
Project: GOLDOME/TBD
Sample ID: GDM-19
Sample Collection Date: 06/27/08

ARF: 56431
APPL ID: AX80251

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
(Moisture testing was not done on this sample.)								
6010B/3050B	Antimony (Sb)	0.28 J	0.5	0.10	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Arsenic (As)	Not detected	0.5	0.09	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Barium (Ba)	133 J	0.5	0.05	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Beryllium (Be)	0.11 J	0.2	0.04	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Cadmium (Cd)	0.77	0.5	0.03	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Chromium (Cr)	23.3	0.5	0.03	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Cobalt (Co)	5.4	0.5	0.05	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Copper (Cu)	10.1	0.5	0.09	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Lead (Pb)	13.0 J	0.5	0.09	mg/kg	1	07/02/08	07/03/08
7471A/7471A	Mercury	0.13	0.1	0.02	mg/Kg	1	07/03/08	07/07/08
6010B/3050B	Molybdenum (Mo)	2.2	0.5	0.07	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Nickel (Ni)	9.4	0.5	0.07	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Selenium (Se)	Not detected	0.5	0.24	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Silver (Ag)	0.57	0.1	0.04	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Thallium (Tl)	1.1 J	2.0	0.21	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Vanadium (V)	113	0.5	0.06	mg/kg	1	07/02/08	07/03/08
6010B/3050B	Zinc (Zn)	18.7	5.0	1.15	mg/kg	1	07/02/08	07/03/08

8/6/08

J = Estimated value.

Printed: 07/08/08 9:18:18 AM

PL-F1-SC-MCRes/MCPQL-REG MDLs

Metals Analysis

Ecology & Environment
5150 Pacific Coast Hwy, ste 200
Long Beach, CA 90804

Attn: TRISHA BERRY/MINDY SONG
Project: GOLDOME/TBD
Sample ID: GDM-20
Sample Collection Date: 06/27/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56431
APPL ID: AX80252

Method	Analyte	Result	PQL	MDL	Units	DF	Prep Date	Analysis Date
6010B/3010A	Antimony (Sb)	29.9 J	50.0	18.00	ug/L	10	07/01/08	07/02/08
6010B/3010A	Arsenic (As)	1020	50.0	25.00	ug/L	10	07/01/08	07/02/08
6010B/3010A	Barium (Ba)	16.1 J	50.0	7.50	ug/L	10	07/01/08	07/02/08
6010B/3010A	Beryllium (Be)	Not detected	20.0	2.40	ug/L	10	07/01/08	07/02/08
6010B/3010A	Cadmium (Cd)	12.8 J	50.0	5.10	ug/L	10	07/01/08	07/02/08
6010B/3010A	Chromium (Cr)	150	50.0	14.00	ug/L	10	07/01/08	07/02/08
6010B/3010A	Cobalt (Co)	7.7 J	50.0	6.30	ug/L	10	07/01/08	07/02/08
6010B/3010A	Copper (Cu)	127	50.0	9.70	ug/L	10	07/01/08	07/02/08
6010B/3010A	Lead (Pb)	313	30.0	16.00	ug/L	10	07/01/08	07/02/08
7470A/7470A	Mercury (Hg)	2130 J	80.0	24.00	ug/L	400	07/03/08	07/07/08
6010B/3010A	Molybdenum (Mo)	19.3 J	50.0	5.30	ug/L	10	07/01/08	07/02/08
6010B/3010A	Nickel (Ni)	128	50.0	3.90	ug/L	10	07/01/08	07/02/08
6010B/3010A	Selenium (Se)	161 J	50.0	32.00	ug/L	10	07/01/08	07/02/08
6010B/3010A	Silver (Ag)	Not detected	10.0	2.50	ug/L	10	07/01/08	07/02/08
6010B/3010A	Thallium (Tl)	41.7 J	50.0	18.00	ug/L	10	07/01/08	07/02/08
6010B/3010A	Vanadium (V)	Not detected	50.0	9.70	ug/L	10	07/01/08	07/02/08
6010B/3010A	Zinc (Zn)	363 J	500.0	23.00	ug/L	10	07/01/08	07/02/08

8/6/08

J = Estimated value.

Printed: 07/08/08 9:18:18 AM

PL-F1-SC-MCRes/MCPQL-REG MDLs

EPA 8082 SOIL

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-1
Sample Collection Date: 6/5/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79177
QCG: $80PS-080611A-123485

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8082	PCB-1016	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1221	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1232	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1242	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1248	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1254	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1260	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	Surrogate: DECA	75.6	44-147	%	6/11/08	6/17/08
EPA 8082	Surrogate: TCmX	64.4	25-147	%	6/11/08	6/17/08

7/15/08

Quant Method: PCBSD.M
Run #: 0609127
Instrument: Ethel
Sequence: 080609
Dilution Factor: 1
Initials: MA

Printed: 6/20/08 9:45:00 AM
Form 1 - APPL Standard GC - No MC

EPA 8082 SOIL

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Project: GOLDOME

ARF: 56245

Sample ID: GDM-2

APPL ID: AX79178

Sample Collection Date: 6/5/08

QCG: $80PS-080611A-123485

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8082	PCB-1016	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1221	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1232	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1242	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1248	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1254	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	PCB-1260	Not detected	330	ug/Kg	6/11/08	6/17/08
EPA 8082	Surrogate: DECA	77.8	44-147	%	6/11/08	6/17/08
EPA 8082	Surrogate: TCmX	67.6	25-147	%	6/11/08	6/17/08

7/15/08

Quant Method: PCBSD.M
Run #: 0609128
Instrument: Ethel
Sequence: 080609
Dilution Factor: 1
Initials: MA

Printed: 6/20/08 9:45:00 AM
Form 1 - APPL Standard GC - No MC

EPA 8082 PCB WATER - UST PI 3.18

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

ARF: 56245

Sample ID: GDM-6

APPL ID: AX79182

Sample Collection Date: 6/5/08

QCG: $80BW-080611A-123484

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8082	PCB-1016	Not detected	200.0	ug/L	6/12/08	6/13/08
EPA 8082	PCB-1221	Not detected	400.0	ug/L	6/12/08	6/13/08
EPA 8082	PCB-1232	Not detected	200.0	ug/L	6/12/08	6/13/08
EPA 8082	PCB-1242	Not detected	200.0	ug/L	6/12/08	6/13/08
EPA 8082	PCB-1248	Not detected	200.0	ug/L	6/12/08	6/13/08
EPA 8082	PCB-1254	Not detected	200.0	ug/L	6/12/08	6/13/08
EPA 8082	PCB-1260	Not detected	200.0	ug/L	6/12/08	6/13/08
EPA 8082	Surrogate: DECA-PCB	86.5	40-135	%	6/12/08	6/13/08

7/15/08

Quant Method: PCBSD.M
Run #: 0609090
Instrument: Ethel
Sequence: 080609
Dilution Factor: 1
Initials: MA

Printed: 6/20/08 10:41:57 AM
Form 1 - APPL Standard GC - No MC

EPA 8260B

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens
Project: GOLDOME
Sample ID: GDM-8
Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245
APPL ID: AX79184
QCG: $8260-080612BS-123323

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8260B	1,1,1,2-Tetrachloroethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,1,1-Trichloroethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,1,2,2-Tetrachloroethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,1,2-Trichloroethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,1-Dichloroethane	Not detected	5000.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,1-Dichloroethene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,2-Dichlorobenzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,2-Dichloroethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,2-Dichloropropane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,3-Dichlorobenzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	1,4-Dichlorobenzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Benzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Bromobenzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Bromodichloromethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Bromoform	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Bromomethane	Not detected	5000.0	ug/L	06/13/08	06/13/08
EPA 8260B	Carbon tetrachloride	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Chlorobenzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Chloroethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Chloroform	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Chloromethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	cis-1,2-Dichloroethene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	cis-1,3-Dichloropropene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Dibromochloromethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Dibromomethane	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Dichlorodifluoromethane	Not detected	5000.0	ug/L	06/13/08	06/13/08
EPA 8260B	Ethyl benzene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Freon-113	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Methylene chloride	Not detected	25000.0	ug/L	06/13/08	06/13/08
EPA 8260B	MTBE	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Tetrachloroethene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Toluene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	trans-1,2-Dichloroethene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	trans-1,3-Dichloropropene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Trichloroethene	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Trichlorofluoromethane	Not detected	2500.0	ug/L	06/13/08	06/13/08

Quant Method: S86HPW.M
Run #: 0612S35
Instrument: Sweetpea
Sequence: S080611
Dilution Factor: 5000
Initials: GM

Printed: 06/13/08 4:19:48 PM
Form 1 - APPL Standard GC - No MC

EPA 8260B

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-8

Sample Collection Date: 06/05/08

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 56245

APPL ID: AX79184

QCG: $8260-080612BS-123323

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
EPA 8260B	Vinyl chloride	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Xylenes	Not detected	2500.0	ug/L	06/13/08	06/13/08
EPA 8260B	Surrogate Recovery (BFB)	109	72-133	%	06/13/08	06/13/08
EPA 8260B	Surrogate Recovery (DBFM)	103	78-125	%	06/13/08	06/13/08
EPA 8260B	Surrogate Recovery (DCA)	105	70-125	%	06/13/08	06/13/08
EPA 8260B	Surrogate Recovery (TOL)	104	73-124	%	06/13/08	06/13/08

7/15/08

Quant Method: S86HPW.M
Run #: 0612S35
Instrument: Sweetpea
Sequence: S080611
Dilution Factor: 5000
Initials: GM

Printed: 06/13/08 4:19:48 PM
Form 1 - APPL Standard GC - No MC

Wet Lab Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-3
Sample Collection Date: 06/05/08

APPL ID: AX79179
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
(Moisture testing was not done on this sample.)							
9014/9010C	Cyanide	* 6.1 UJ	0.50	0.280	mg/kg	06/18/08	06/18/08
9014/9010C	Cyanide	Not detected UJ	0.50	0.280	mg/kg	06/24/08	06/24/08
EPA 9045C	pH	12.56@22C	NA		pH Units	06/09/08	06/09/08

7/15/08

*= possible Contamination
RW- 6/25/08

Printed: 06/25/08 1:44:17 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

Wet Lab Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-4

APPL ID: AX79180

Sample Collection Date: 06/05/08

ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
(Moisture testing was not done on this sample.)							
9014/9010C	Cyanide	~~956000~~ E ms	50.00	28.000	mg/kg	06/20/08	06/20/08
9014/9010C	Cyanide	385000 J	100.00	56.000	mg/kg	06/20/08	06/20/08
EPA 9045C	pH	2.33@22.9C	NA		pH Units	06/09/08	06/09/08

7/15/08

E = The reported value exceeds linear range.

Printed: 06/25/08 1:44:17 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

Wet Lab Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-5
Sample Collection Date: 06/05/08

APPL ID: AX79181
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
EPA 150.2	pH	0.13@12.2C			pH Units	06/06/08	06/06/08

7/15/08

Printed: 06/25/08 1:44:17 PM

APPL-F1-SC-MCRes/MCPQL-REG MDLs

Wet Lab Analysis

Ecology & Environment
130 Battery St. #400
San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-8
Sample Collection Date: 06/05/08

APPL ID: AX79184
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
9010C/9014	Cyanide	Not detected UJ	10.0	5.00	ug/L	06/23/08	06/23/08
9010C/9014	Cyanide	* ~~Not detected~~ NDS	10.0	5.00	ug/L	06/19/08	06/19/08
EPA 150.2	pH	<2@15.5C			pH Units	06/06/08	06/06/08

7/15/08

*- Sample was re-Distilled due to possable contamination in Batch.
- RWP 6/25/08

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

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San Francisco, CA 94111

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-8B
Sample Collection Date: 06/05/08

APPL ID: AX79185
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
9010C/9014	Cyanide	~~* 6510 E~~ MS	10.0	5.00	ug/L	06/19/08	06/19/08
9010C/9014	Cyanide	6.0 J J	10.0	5.00	ug/L	06/23/08	06/23/08

7/15/08

J = Estimated value.
E = The reported value exceeds linear range.

* = possible contamination.

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

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4203 West Swift Avenue
Fresno, CA 93722

Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-8C
Sample Collection Date: 06/05/08

APPL ID: AX79186
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
9010C/9014	Cyanide	5.3 J J	10.0	5.00	ug/L	06/23/08	06/23/08
9010C/9014	Cyanide	~~* 7.1 J~~ ACS	10.0	5.00	ug/L	06/19/08	06/19/08

7/15/08

J = Estimated value.

* = possible contamination
-RMF 6/25/08

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

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Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-9
Sample Collection Date: 06/05/08

APPL ID: AX79187
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
EPA 9045C	pH	4.42@20.6C	NA		pH Units	06/06/08	06/06/08

7/15/08

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

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Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-10
Sample Collection Date: 06/05/08

APPL ID: AX79188
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
EPA 150.2	pH	13.87@9.6C			pH Units	06/06/08	06/06/08

7/15/08

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

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Attn: Robin Clemens

Project: GOLDOME

Sample ID: GDM-12
Sample Collection Date: 06/05/08

APPL ID: AX79190
ARF: 56245

Method	Analyte	Result	PQL	MDL	Units	Prep Date	Analysis Date
(Moisture testing was not done on this sample.)							
9014/9010C	Cyanide	0.65 J	0.50	0.280	mg/kg	06/24/08	06/24/08
9014/9010C	Cyanide	~~* 9.3~~ NS	0.50	0.280	mg/kg	06/18/08	06/18/08
EPA 9045C	pH	10.3@22.2C	NA		pH Units	06/09/08	06/09/08

7/15/08

* = possible contamination.

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APPL-F1-SC-MCRes/MCPQL-REG MDLs

Wet Lab Analysis

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APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: TRISHA BERRY/MINDY SONG

Project: GOLDOME/TBD

Sample ID: GDM-18

Sample Collection Date: 06/27/08

APPL ID: AX80250

ARF: 56431

Method	Analyte	Result		PQL	Units	Prep Date	Analysis Date
9014/9010C	Cyanide	8.9	J	0.50	mg/kg	07/01/08	07/02/08

8/6/08

Form 1 - APPL Standard Wetlab - No MC
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4203 West Swift Avenue
Fresno, CA 93722

Attn: TRISHA BERRY/MINDY SONG

Project: GOLDOME/TBD

Sample ID: GDM-19
Sample Collection Date: 06/27/08

APPL ID: AX80251
ARF: 56431

Method	Analyte	Result	PQL	Units	Prep Date	Analysis Date
9014/9010C	Cyanide	Not detected	0.50	mg/kg	07/01/08	07/02/08

8/6/08

Form 1 - APPL Standard Wetlab - No MC
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Curtis & Tompkins, Ltd.

LABORATORY NUMBER: 204231
CLIENT: APPL, Inc.

DATE SAMPLED: 06/5/08
DATE RECEIVED: 06/7/08
DATE ANAL 0.028846154
BATCH#: 139701

ANALYSIS: Ignitability
ANALYSIS METHOD: ~~SW-846, Ch. 7~~ EPA method 1030
ds 8/6/08

LAB ID	SAMPLE ID	RESULT
204231-001 (GDM-14)	AX79192	Ignitable, Energetic, Fast-Burning Vigorous

8/6/08