Merrell-Johnson Engineering, Inc.

CIVIL ENGINEERING ♦ SURVEYING

DOCKET	
09-AFC-5	
DATE	APR 16 2010
RECD.	APR 20 2010

April 16, 2010

Abengoa Solar
Attn: Fred Redell
11500 W. 13th Avenue
Lakewood, CO 80215

RE: Site Sampling Analysis
Mojave Solar Project
Harper Dry Lake
San Bernardino County, CA

Mr. Redell

In accordance with your authorization, we have performed a site sampling analysis for the above-referenced project. The site sampling analysis was performed under the direct site supervision of Mr. Glenn Stillman who is licensed by the State of California as a Registered Environmental Assessor II, a Certified Lead Inspector / Assessor, and a Certified Asbestos Consultant. Mr. Stillman's certification is included with this report. The following report presents the findings based upon the results of the field investigation and the laboratory analysis and review.

If you have any questions or need additional information, please do not hesitate to contact our office.

Sincerely,

Merrell-Johnson Engineering, Inc.

Mark D Rowan

Mark D. Rowan
Project Manager

12138 Industrial Blvd., Suite 240 • Victorville, CA 92395 • (760) 241-6146 • Fax (760) 241-0566
128 E. Fredricks St. • Barstow, CA 92311 • (760) 256-2068 • Fax (760) 256-0418

Site Material Sampling Report

Mojave Solar Project

Harper Dry Lake

San Bernardino County, California

Prepared for:

Mojave Solar LLC

Table of Contents

Introduction

Mojave Solar, LLC, a Delaware limited liability company (herein "Mojave Solar"), is proposing to construct, own and operate the Mojave Solar Project (herein "Project"). The Project is a concentrating solar electric generating facility proposed on an approximately 1,765-acre site near Harper Dry Lake in San Bernardino County, California.

Sampling Requirements

As part of the "Application for Certification" process for the Project and at the request of the California Energy Commission (CEC), Mojave Solar performed a site sampling analysis of large, fallow agricultural fields and the existing, abandoned structures on the project site. These structures included various wood and concrete buildings, previous underground tank locations, and existing and abandoned well sites.

The sampling and testing was outlined in the MSP Soil Sampling Plan approved by the CEC prior to the commencement of onsite sampling procedures.

Sampling Procedures

Field sampling was performed on March 1st and 2nd, 2010. Sampling was performed under the direction of state certified personnel at the site. Field sampling, testing, and observations were performed and material samples were obtained for further laboratory analysis. Soil samples for pesticide and herbicide analysis were collected in the locations identified on the plan map and composited for analysis.

The original fallow agricultural soil samples were composited into a single sample and transported to the lab for analysis. In order to obtain more precise sampling data and to conform with the original sampling plan, a second set of fallow agricultural soil samples were obtained on April 9th, 2010. These samples were consolidated into twelve individual soil samples as outlined on the approved sampling plan.

All site samples were transported from the field to the certified lab location following standard sampling and testing procedures. Chain of Custody information for these samples is included with this report. A summary of sampling results by individual APN are included in this report. Results of the field testing and observations are detailed on the "Field Asbestos and Lead Sampling Notes" included in this report.

Laboratory Sampling Results

The results of the laboratory testing of field samples from the site are attached to this report. Site maps of the existing structures and testing locations are included for reference to the laboratory data sheets. The assessor parcel numbers (APNs) for the testing locations are outlined on the original sampling plan proposal.

Mojave Solar Project – Soil Sampling Plan – Summary of Laboratory Testing Results				
APN	PHASE I INFORMATION	SAMPLING PLAN	TEST(S)	SAMPLING RESULTS
0490-121-42	Previous Cattle Farming	(1-3) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
	Existing Concrete Structure – Store	(A) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020	Portions contain greater than 1% Asbestos Portions contain greater than 1.0 mg/cm^2 ppb Building B1
	Vent Pipes @ South Store Wall	(B) – Hydrocarbons	USEPA 8015M	Not Detected
	Previous Fuel Islands @ Store Front	(C) – Hydrocarbons	USEPA 8015M	Positive for Hydrocarbons
	Previous UG Aviation Fuel Tank – 30' North of Store	(D) – Hydrocarbons	USEPA 8015M	Positive for Hydrocarbons
	Previous AG Fuel Tanks – Rear of Store	(E) – Hydrocarbons	USEPA 8015M	Not Detected
	Existing Wood Structures – Various	(F) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020	Portions contain greater than 1% Asbestos Portions contain greater than 1.0 mg/cm^2 ppb Buildings B4, B5, B6, B7, B9, & B10
0490-131-06	Wood Structures @ SW Corner – Vacant Homes	(G) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020	Portions contain greater than 1% Asbestos Portions contain greater than 1.0 mg/cm^2 ppb Buildings AB1, AB2, & AB3
	Vacant – Fallow Agriculture	(6) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-131-07	Vacant – Fallow Agriculture	(5) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-131-08	Vacant – Fallow Agriculture	(4) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-131-11	Vacant – Fallow Agriculture	(7) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-131-12	Wood Structures @ South – Vacant Farm Buildings	(H) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020	Portions contain greater than 1% Asbestos Portions contain greater than 1.0 mg/cm^2 ppb Buildings HB2 & HB4
		(7) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides

0490-131-13	*Not Part of Final Project Site*	*N/A*		
0490-131-15	Existing Desert	No Sampling Performed		
0490-131-16	Existing Desert	No Sampling Performed		
0490-161-08	Active Agriculture	(8) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-161-09	Active Agriculture	(8) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
	Active Well @ NE Corner – Ryken Well	(I) – Hydrocarbons	USEPA 8015M	Not Detected
0490-161-10	Vacant – Fallow Agriculture	(9) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-161-11	Vacant – Fallow Agriculture	(10) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
	Active Well @ NW Corner – Wetlands Well	(J) – Hydrocarbons	USEPA 8015M	Not Detected
0490-161-12	Vacant – Fallow Agriculture	(12) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-161-13	Vacant – Fallow Agriculture	(11) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A	Not Detected – Pesticides & Herbicides
0490-171-09	*Not Part of Final Project Site*	*N/A*		

Conclusions and Recommendations

A soil sampling summary of results by individual APN number is included in this report. The results of the field and laboratory analysis of the site samples are included in this report. While many samples came back as non-detectable, there were samples indicating the presence of asbestos containing materials (ACM), lead based paint (LBP), and hydrocarbon residue from previous underground fuel storage tanks located on the site.

Sampling for pesticides and herbicides in the fallow agricultural areas indicated non-detectable results for pesticide and herbicide residue. Previous conversations with the county agricultural commissioner had indicated that the county did not expect any residues to be found due to the short half-life of normal chemicals used for this purpose. The Registered Environmental Assessor (REA), on-site to supervise the sampling and testing, confirmed the county agricultural commissioner's expectations. The REA provided a pesticide and herbicide use evaluation, based upon his experience sampling and testing fallow agricultural areas, as additional background information to support the site test results. This evaluation is included in this report.

Follow-up Site Activities

As a follow-up, the following work should be completed prior to any demolition activities occurring on the site:

- All asbestos containing material ("ACM") has to be abated. Under Federal law, ACM is defined as material comprised of greater than 1% asbestos if it is or has the potential to become friable. Friable is defined as material that can be crumbled by hand pressure and releasing asbestos fibers, or asbestos fiber release is from mechanical means (i.e., "hard" demo).

- The lead-based paint ("LBP") has to be properly managed. This can be done as a simple removal (e.g., door and door/window frames), or more detailed (i.e., exterior paint on former General Store). Upon demolition of this building some LBP will be released to the ground. The soil should be sampled to ensure it does not become impacted above regulatory action limits. This type of removal would be less expensive than LBP removal prior to demolition.

- The general store's former fueling system should be investigated, as well as the former aviation fuel ("AV") tank on the northern side of the building. Mitigation procedures should be interfaced with the appropriate governing agencies having jurisdiction over the project site.

- The hazardous materials/wastes located in the General Store's basement and by Building 5 need to be properly managed and disposed/recycled.

An abatement and remediation plan should be developed and instituted to properly dispose of the listed materials at the site. This plan should be prepared and instituted to complete this work in an orderly fashion and prior to the commencement of demolition and construction activities in the affected areas.

MOJAVE SOLAR PROJECT
SITE SAMPLING PLAN

Surface Soil Sampling

The anticipated sample locations are shown on the attached Soil Sampling Plan and outlined in the attached soil sampling table. The sample locations were selected to give reasonable spatial coverage of the project site area. If present, soil contamination in the previously disturbed fallow agricultural areas is anticipated to be relatively shallow. Consequently, the focus of the proposed investigation for these areas is shallow soil.

Soil samples for the fallow agriculture areas (labeled 1 through 12) will be collected from each quarter of the quarter sections at a depth of 0 to 8 inches. These surface samples will be collected using a trowel or appropriate hand equipment. The fallow agriculture samples will be consolidated and submitted for laboratory analysis of possible pesticide and/or herbicide residue per USEPA 8081A & USEPA 8151A

Soil samples for the Phase I areas (labeled A through J) will be collected from the locations identified in the Phase I Environmental Site Assessment as showing evidence of surface staining from previous commercial and agricultural uses and locations of existing structures.

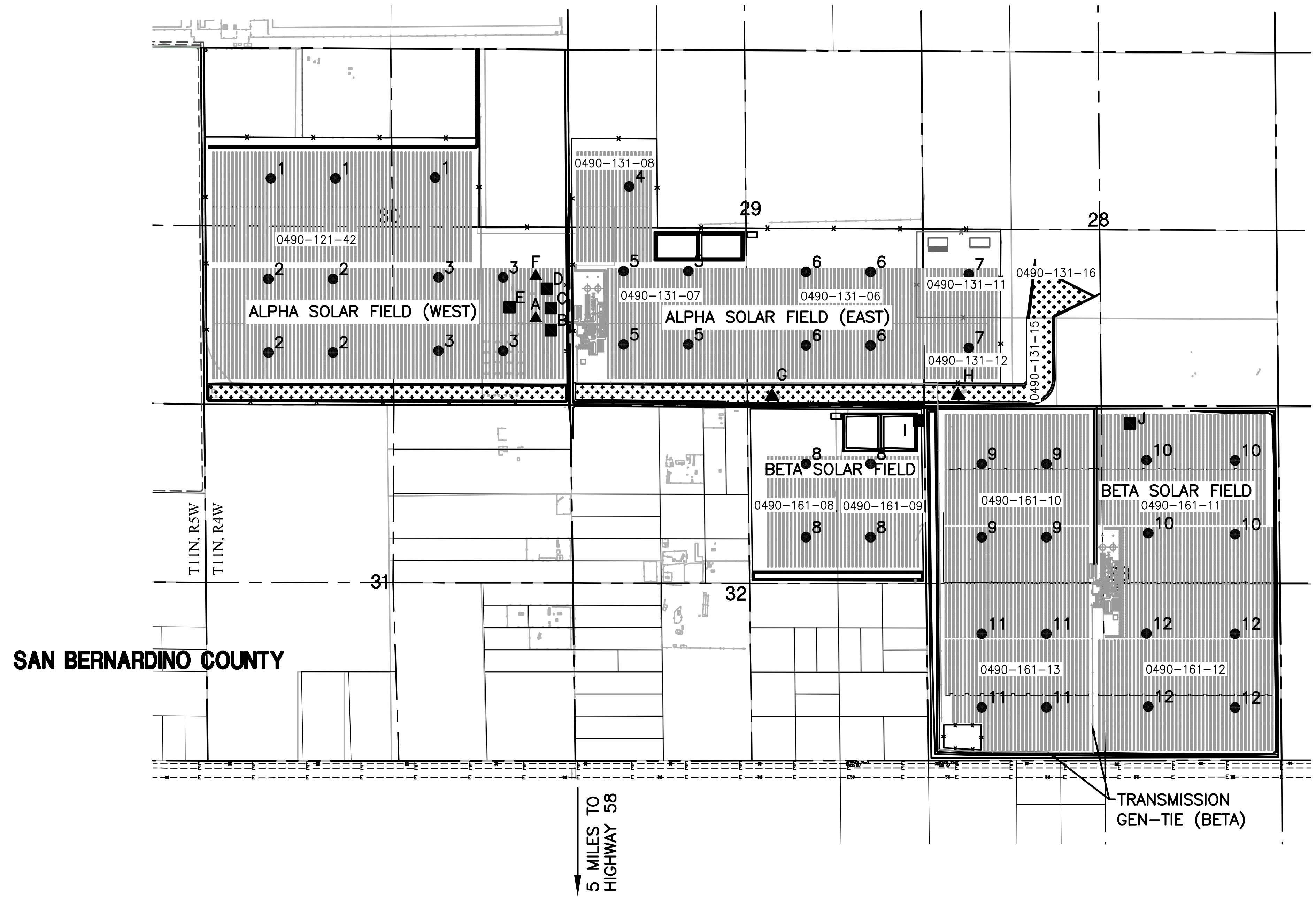
Two soil samples will be collected from each location showing evidence of surface staining, a surface sample at 0 to 4 inches and a deeper sample at 20 to 24 inches. The surface sample will be collected using a trowel or appropriate hand equipment. The deeper sample will be collected using a hand auger or other appropriate equipment as necessary. These samples will be submitted for laboratory analysis of possible hydrocarbon residue per USEPA 8015M. Material samples will be collected in the locations of existing structures to test for evidence of lead and asbestos per EPA 6020 & USEPA 600/M4-82-020.

Soil and Material Analysis

The proposed analytical testing parameters and methods for soil and material samples will be performed by an independent, approved laboratory. Soil and material samples will be submitted for a combination of laboratory analysis. Analysis will be determined following consultation with and at the direction of the County of San Bernardino Environmental Health Department and the San Bernardino County Department of Agriculture.

Mojave Solar Project – Soil Sampling Plan			
APN	PHASE I INFORMATION	SAMPLING PLAN	TEST(S)
0490-121-42	Previous Cattle Farming	(1-3) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
	Existing Concrete Structure – Store	(A) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020
	Vent Pipes @ South Store Wall	(B) – Hydrocarbons	USEPA 8015M
	Previous Fuel Islands @ Store Front	(C) – Hydrocarbons	USEPA 8015M
	Previous UG Aviation Fuel Tank – 30' North of Store	(D) – Hydrocarbons	USEPA 8015M
	Previous AG Fuel Tanks – Rear of Store	(E) – Hydrocarbons	USEPA 8015M
	Existing Wood Structures – Various	(F) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020
0490-131-06	Wood Structures @ SW Corner – Vacant Homes	(G) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020
	Vacant – Fallow Agriculture	(6) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-131-07	Vacant – Fallow Agriculture	(5) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-131-08	Vacant – Fallow Agriculture	(4) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-131-11	Vacant – Fallow Agriculture	(7) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-131-12	Wood Structures @ South – Vacant Farm Buildings	(H) – Lead / Asbestos	EPA 6020 / USEPA 600/M4-82-020
		(7) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-131-13	*Not Part of Final Project Site*	*N/A*	
0490-131-15	Existing Desert	No Sampling Planned	
0490-131-16	Existing Desert	No Sampling Planned	
0490-161-08	Active Agriculture	(8) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-161-09	Active Agriculture	(8) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
	Active Well @ NE Corner – Ryken Well	(I) – Hydrocarbons	USEPA 8015M
0490-161-10	Vacant – Fallow Agriculture	(9) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-161-11	Vacant – Fallow Agriculture	(10) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
	Active Well @ NW Corner – Wetlands Well	(J) – Hydrocarbons	USEPA 8015M

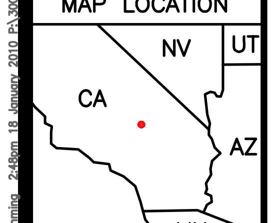
0490-161-12	Vacant – Fallow Agriculture	(12) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-161-13	Vacant – Fallow Agriculture	(11) – Pesticides / Herbicides	USEPA 8081A / USEPA 8151A
0490-171-09	*Not Part of Final Project Site*	*N/A*	



SAMPLE LOCATIONS

- ▲[A] EXISTING CONCRETE STRUCTURE – STORE
- ■[B] VENT PIPES AT SOUTH STORE WALL
- ■[C] PREVIOUS FUEL ISLANDS AT STORE FRONT
- ■[D] PREVIOUS UG AVIATION FUEL TANK – 30' NORTH OF STORE
- ■[E] PREVIOUS AG FUEL TANKS – REAR OF STORE
- ▲[F] EXISTING WOOD STRUCTURES – VARIOUS
- ▲[G] WOOD STRUCTURES AT SW CORNER – VACANT HOMES
- ▲[H] WOOD STRUCTURES AT SOUTH – VACANT FARM BUILDINGS
- ■[I] ACTIVE WELL AT NE CORNER – RYKEN WELL
- ■[J] ACTIVE WELL AT NW CORNER – WETLANDS WELL

MAP LOCATION



LEGEND

- ● SAMPLE LOCATION TO BE TESTED FOR PESTICIDES & HERBICIDES
- ●# SAMPLE LOCATION CONSOLIDATED FOR LAB TESTING
- ■ SAMPLE LOCATION TO BE TESTED FOR HYDROCARBONS
- ▲ SAMPLE LOCATION TO BE TESTED FOR LEAD & ASBESTOS

North

MOJAVE SOLAR PROJECT

SOIL SAMPLING PLAN

0 1000' 2000' 3000'
SCALE: 1:24000

MOJAVE SOLAR LLC

Merrell-Johnson Engineering, Inc.

PROJECT:
DATE: 01/18/10

jcumming 2:48pm 18 January 2010 P:\3001-4 Harper Lake CEC\PROJECT SITE.dwg – Soil Sampling plan Merrell-Johnson Engineering, Inc.

TECHNICAL CERTIFICATION

ALASKA PETROLEUM
ENVIRONMENTAL
ENGINEERING

April 14, 2010

via E-Mail

Merrell – Johnson Engineering, Inc.
12138 Industrial Boulevard, Suite 240
Victorville, California 92395

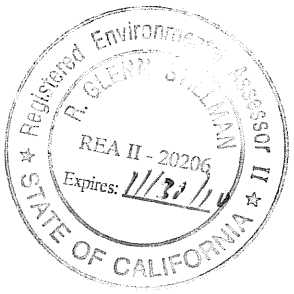
Attn: Mark D. Rowan – Project Manger

Re: Mojave Solar LLP
Hinkley, CA

Dear Mark:

By means of this letter, I am certifying that the environmental sampling conducted at the referent site was performed under my direct supervision. Please call or e-mail if you have any questions.

Sincerely,



R. Glenn Stillman
Principal Engineer

CA REA II #20206
CA Lead Inspector/Assessor # 13914
CA Certified Asbestos Consultant # 03-3324

RGS/kae

Alaska Office
907 • 479-9555
P.O. Box 81904
Fairbanks, Alaska 99708

California Office
714 • 897-2733
FAX 714 • 897-0031
P.O. Box 5365
Garden Grove, CA 92846

RESULTS OF SOIL SAMPLING

LEAD AND ASBESTOS SAMPLING LOCATIONS


B4
B5
B6
B7
B8
B9
B1
APN 0490-121-42
B10
© 2010 Google
Google
35°00'47.29" N 117°19'52.80" W
elev 2068 ft
Feb 1, 2009
Eye alt 4333 ft
N


N
AB1
AB2
AB3
APN 0490-131-06
Lockhart Rd
© 2010 Google
Google
35°00'39.51" N 117°19'12.62" W
elev 2059 ft
Feb 1, 2009
Eye alt 2522 ft


HB4
HB3
HB7
HB6
HB8
HB5
HB2
HB1
APN 0490-131-12
HB9
© 2010 Google
Google
35°00'39.47" N 117°18'39.31" W
elev 2047 ft
Feb 1, 2009
Eye alt 2446 ft

SAMPLING RESULTS

FIELD ASBESTOS & LEAD SAMPLING NOTES

General Store: 65 asbestos samples

Building	Asbestos [1]		Lead - Based Paint [2]
1	North exterior roof parapet roof field	Exterior	All walls
	Mezzanine green 9" square vinyl floor tile (VFT)		Door 2 [6]
			South wall, southeastern room
	Ground level and mezzanine brown 9" square VFT		interior paints
	Ground level brown 9" square VFT	Interior	Southern room
	West from B1; pipe coating		Main floor restrooms, ceramic tiles
	West from B1; broken 9" VFT in soil	Mezzanine [7]	Room 5, southern window
	Ground level southern room, ceiling insulation		Hallway, just wood sills
	Basement; 41 rolls of 6" x 100' tarpaper flashing		
	SW exterior "closet"; pipe insulation		
	Western wall exterior window putty		
	Southern room green 9" VFT		
2	Drywall joint compound		Northern room, eastern window
			Northern room, eastern door frame
3	Exterior pipe wrap		
4	Roof mastic		Interior west wall (wood)
	Baseboard		
	9" VFT		
5	Exterior broken Transite pipe pieces		
	Window putty		
6	Exterior pipe wrap		North wall
	Window putty		North wall, windows 6 - 10 [3]
	North exterior wall Transite pipe		South wall
			South wall, window 7 [3]
			South wall, doors 2 - 4 [4]
			Room 5, door [5]
7	Roof mastic		West wall
	Eastern exterior tan VFT in debris pile		North wall
			West wall, northern window
		Southern wall	Room 1, 2, 3, 4, door jamb [4, 5]
			Room 2, 3, 4, 6, 7, window [3, 5]
		Northern wall	Room 7, 6, 5, 4, 3, 1, window
			Room 7, 5, 3, bath window
			Room 1, interior closet
8	None		Eastern Door
			All exterior walls
			Southern window
			Interior eastern wall cabinets
9	None		
10	Drywall joint compound		

NOTES

1	Fuel leak at former fuel dispenser island; entire piping should be investigated per County Fire regulations
1	Fuel leak at former northern AV gas tank
1	Transite piece exterior southwest corner
1	Transite pieces exterior southwest corner
1	Drum storage in basement
1	West from building; two stage clarifier
1	Potential for lead solder in 4" cast iron pipe joints
1	Elevator brake shoes likely asbestos
All	Fluorescent light ballasts need to be inspected for PCBs
5	South exterior waste grease and oil drums
6	Herbicide bag inside building
8	West from building; potential former hydraulic lifts with hydrocarbon building-up
HB5	Potential former Mechanic's Pit in garage

[1] = analyzed to contain greater than 1% asbestos that is or may become friable during demolition

[2] = greater than 1.0 mg/cm^2 as measured with an XRF

[3] = Wall windows numbered sequentially from west to east

[4] = Door and/or door jambs numbered sequentially from west to east

[5] = Rooms numbered sequentially from west to east

[6] = Western walls doors numbered sequentially from north to south

[7] = General store's mezzanine rooms numbered sequentially from north to south

LABORATORY SAMPLING RESULTS

03-10-2010

Mr. Glenn Stillman
Alaska Petroleum Environmental Engineering
P.O. Box 5365
Garden Grove, CA 92846-0365

Project: 40100
Project Site: Mojave Solar LLC
Sample Date: 03-01-2010
Lab Job No.: AD003012

Dear Mr. Stillman:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 03-04-2010 and analyzed by the following EPA methods:

EPA 8015M (Total Petroleum Hydrocarbons)
EPA 8260B (BTEX & Oxygenates by GC/MS)
EPA 6010B/7471A for CAM Metals
EPA 8081A (Organochlorine Pesticides)
EPA 8082 (PCBs)
EPA 8151A (Chlorinated Herbicides)

EPA 8151A analyses were subcontracted to ABC Environmental Laboratories (ELAP # 2584).

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Batch No. for TPH-g:	BMC04-GS1	Date Analyzed:	03-04-2010
Batch No. for TPH-d:	BC04-DS1	Date Analyzed:	03-04-2010
		Date Reported:	03-10-2010

EPA 8015M (Total Petroleum Hydrocarbons)
Reporting Unit: mg/kg (ppm)

Sample ID	Lab ID	Gasoline Range (C4-C12)*	Diesel Range (C13-C23)	Oil Range (C24-C40)
MDL		0.2	1	25
PQL		0.5	5	50
Method Blank		ND	ND	ND
B1-1	AD003012-1	ND	ND	ND
B1-2	AD003012-2	ND	ND	ND
B1-3	AD003012-3	1,310	3,510	124
B2-1	AD003012-4	NA	ND	ND
B2-2	AD003012-5	NA	ND	ND
B3-1	AD003012-6	NA	ND	ND
B3-2	AD003012-7	NA	ND	ND
B4-1	AD003012-8	NA	52.7	440
B4-2	AD003012-9	NA	ND	ND
B5-1	AD003012-10	NA	8,040	17,700
B5-2	AD003012-11	NA	27.0	136
BLD9	AD003012-14	NA	3,620	25,600

* Gasoline Range TPH result is obtained from purge and trap analysis.
MDL: Method Detection Limit;
PQL: Practical Quantitation Limit.
ND: Not Detected (at the specified limit).
J : Trace value.
NA: Not Analyzed

03-10-2010

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Batch No:	0304-VOBS1	Date Analyzed:	03-04-2010

EPA 8260B (BTEX & Oxygenates by GC/MS)
Reporting Units: mg/kg (ppm)

Lab ID	Method Blank	AD003012-3					MDL	PQL
Sample ID		B1-3						
DF	1	100						
Benzene	ND	ND					0.001	0.002
Toluene	ND	ND					0.001	0.002
Ethylbenzene	ND	3.58					0.001	0.002
Total Xylenes	ND	34.8*					0.002	0.004
Ethanol	ND	ND					0.50	1.00
MTBE	ND	ND					0.002	0.005
ETBE	ND	ND					0.002	0.005
DIPE	ND	ND					0.002	0.005
TAME	ND	ND					0.002	0.005
TBA	ND	ND					0.002	0.005

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; DF=Dilution Factor;
ND=Not Detected (below DF × MDL); * Obtained from higher dilution.
J=Trace value: result is lower than DF × PQL but higher than DF × MDL.

Client: Alaska Petroleum Environmental Engineering
Project: 40100
Project Site: Mojave Solar LLC
Matrix: Soil
Digestion Method: EPA 3050B
Batch No. for 6010B: 0305-MS1
Batch No. for Hg: 0305-HgS1

Lab Job No.: AD003012

Date Sampled: 03-01-2010
Date Received: 03-04-2010
Date Digested: 03-04-2010
Date Analyzed: 03-05-2010
Date Analyzed: 03-05-2010
Date Reported: 03-10-2010

EPA 6010B/7471A for Cam Metals (TTLC)
Reporting Units: mg/kg (ppm)

Element	EPA	Method Blank	AD003012-13	AD003012-14				PQL
	Method		Slag	BLD9				
Antimony (Sb)	6010B	ND	ND	ND				2
Arsenic (As)	6010B	ND	ND	2.2				0.5
Barium (Ba)	6010B	ND	74.2	32.1				2
Beryllium (Be)	6010B	ND	ND	ND				2
Cadmium (Cd)	6010B	ND	ND	ND				2
Chromium (Cr)	6010B	ND	13.1	7.0				2
Cobalt (Co)	6010B	ND	13.8	ND				2
Copper (Cu)	6010B	ND	15.7	15.8				2
Lead (Pb)	6010B	ND	5.8	45.9				2
Mercury (Hg)	7471A	ND	ND	ND				0.05
Molybdenum (Mo)	6010B	ND	ND	2.0				2
Nickel (Ni)	6010B	ND	25.9	5.3				2
Selenium (Se)	6010B	ND	ND	ND				0.5
Silver (Ag)	6010B	ND	ND	40.2				2
Thallium (Tl)	6010B	ND	ND	ND				2
Vanadium (V)	6010B	ND	127	21.4				2
Zinc (Zn)	6010B	ND	52.3	123				1

PQL: Practical Quantitation Limit.
ND: Not Detected (at the specified limit).

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project: 40100			
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Prep. Method:	EPA 3550B	Date Prepared:	03-04-2010
Batch No.	CC05-PS1	Date Analyzed:	03-05-2010
		Date Reported:	03-10-2010

EPA 8081A (Organochlorine Pesticides)
Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	AD003012-12			
CLIENT SAMPLE I.D.				AG-1			
DILUTION FACTOR							
COMPOUND	**MDL**	**PQL**					
Alpha-BHC	3	5	ND	ND			
Gamma-BHC (Lindane)	3	5	ND	ND			
Heptachlor	3	5	ND	ND			
Aldrin	3	5	ND	ND			
Betta-BHC	3	5	ND	ND			
Delta-BHC	3	5	ND	ND			
Heptachlor Epoxide	3	5	ND	ND			
Endosulfan I	3	5	ND	ND			
4,4'-DDE	3	5	ND	ND			
Dieldrin	3	5	ND	ND			
Endrin	3	5	ND	ND			
4,4'-DDD	3	5	ND	ND			
Endosulfan II	3	5	ND	ND			
4,4'-DDT	3	5	ND	ND			
Endrin Aldehyde	3	5	ND	ND			
Endosulfan Sulfate	3	5	ND	ND			
Methoxychlor	3	5	ND	ND			
Chlordane	15	25	ND	ND			
Toxaphene	60	100	ND	ND			

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
ND=Not Detected (below DF × MDL).
J=Result is beween DF × MDL and DF × PQL; * Obtained from a higher dilution analysis.

03-10-2010

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	03-01-2010
Matrix:	Soil	Date Received:	03-04-2010
Extraction Method:	EPA 3550B	Date Extracted:	03-04-2010
Batch No.	CC08-PS1	Date Analyzed:	03-08-2010

EPA 8082 (PCB's)
Reporting Unit: µg/kg (ppb)

Sample ID	Lab ID	DF	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Method Detect. Limit (MDL)			50	100	50	50	50	50	50
Method Blank		1	ND	ND	ND	ND	ND	ND	ND
BLD9	AD003012-14	1	ND	ND	ND	ND	ND	ND	ND

MDL=Method Detection Limit; MB=Method Blank; ND=Not Detected (below DF × MDL)

03-10-2010

TPH-Gasoline
Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	Q003011-1
Batch No:	BMC04-GS1	Date Analyzed:	03-04-2010

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-g	ND	1,000	1,180	1,250	118.0	125.0	5.8	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
TPH-g	842	1,000	84.2	80-120

ND: Not Detected (at the specified limit).

03-10-2010

EPA 8015M (TPH)
Batch QA/QC Report

Client: Alaska Petroleum Environmental Engineering
Project: 40100
Matrix: Soil
Batch No. for TPH-d: BC04-DS1

Lab Job No.: AD003012
Lab Sample ID: AD003012-1
Date Analyzed: 03-04-2010

I. MS/MSD Report
Unit: ppm

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
TPH-D	ND	200	218	219	109.0	109.5	0.5	30	70-130

II. LCS Result
Unit: ppm

Analyte	LCS Report Value	True Value	Rec.%	%Rec Accept. Limit
TPH-D	217	200	108.5	80-120

ND: Not Detected (at the specified limit).

03-10-2010

EPA 8260B
Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	Q003011-1
Batch No:	0304-VOBS1	Date Analyzed:	03-04-2010

I. MS/MSD Report
Unit: ppb

Analyte	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1,1-Dichloroethene	ND	20	22.6	22.6	113.0	113.0	0	30	70-130
Benzene	ND	20	19.9	21.2	99.5	106.0	6.3	30	70-130
Trichloro-ethene	ND	20	21.7	19.4	108.5	97.0	11.2	30	70-130
Toluene	ND	20	21.8	17.6	109.0	88.0	21.3	30	70-130
Chlorobenzene	ND	20	17.8	19.4	89.0	97.0	8.6	30	70-130

II. LCS Result
Unit: ppb

Analyte	LCS Value	True Value	Rec.%	Accept. Limit
1,1-Dichloroethene	20.9	20.0	104.5	80-120
Benzene	23.2	20.0	116.0	80-120
Trichloro-ethene	18.6	20.0	93.0	80-120
Toluene	23.0	20.0	115.0	80-120
Chlorobenzene	22.2	20.0	111.0	80-120

ND: Not Detected (at the specified limit).

03-10-2010

EPA 6010B/7471A for Cam Metals (TTLC)
Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	LCS
Batch No. for 6010B:	0305-MS1	Date Analyzed:	03-05-2010
Batch No. for Hg:	0305-HgS1	Date Analyzed:	03-05-2010

LCS/LCSD Report

Analyte	EPA Method	MB Conc.	LCS %Rec.	LCSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Antimony (Sb)	6010B	ND	100.6	96.2	4.5	20	80-120
Arsenic (As)	6010B	ND	102.1	100.9	1.2	20	80-120
Barium (Ba)	6010B	ND	100.3	101.6	1.3	20	80-120
Beryllium (Be)	6010B	ND	98.4	98.7	0.3	20	80-120
Cadmium (Cd)	6010B	ND	96.9	98.3	1.4	20	80-120
Chromium (Cr)	6010B	ND	102.3	102.2	0.1	20	80-120
Cobalt (Co)	6010B	ND	98.4	100.5	2.1	20	80-120
Copper (Cu)	6010B	ND	102.3	100.7	1.6	20	80-120
Lead (Pb)	6010B	ND	98.2	98.2	0.0	20	80-120
Mercury (Hg)	7471A	ND	104.0	99.4	4.5	20	80-120
Molybdenum (Mo)	6010B	ND	97.8	97.1	0.7	20	80-120
Nickel (Ni)	6010B	ND	97.4	99.7	2.3	20	80-120
Selenium (Se)	6010B	ND	101.4	96.9	4.5	20	80-120
Silver (Ag)	6010B	ND	117.6	117.7	0.1	20	80-120
Thallium (Tl)	6010B	ND	98.5	107.3	8.6	20	80-120
Vanadium (V)	6010B	ND	93.5	93.2	0.3	20	80-120
Zinc (Zn)	6010B	ND	108.3	109.4	1.0	20	80-120

ND: Not Detected.

03-10-2010

EPA 8081A (Pesticides)
Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	AD003012-12
Batch No.	CC05-PS1	Date Analyzed:	03-05-2010

I. MS/MSD Report

Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	18.3	16.2	91.5	81.0	12.2	30	46-127
Heptachlor	ND	20	18.5	16.7	92.5	83.5	10.2	30	31-134
Aldrin	ND	20	20.3	18.8	101.5	94.0	7.7	30	36-132
Dieldrin	ND	20	19.5	19.6	97.5	98.0	0.5	30	21-134
Endrin	ND	20	19.2	16.6	96.0	83.0	14.5	30	42-139
4,4'-DDT	ND	20	18.3	16.4	91.5	82.0	11.0	30	21-134

II. LCS Result

Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	16.0	20	80.0	80-120
Heptachlor	16.2	20	81.0	80-120
Aldrin	18.4	20	92.0	80-120
Dieldrin	18.9	20	94.5	80-120
Endrin	16.0	20	80.0	80-120
4,4'-DDT	16.0	20	80.0	80-120

ND: Not Detected.

03-10-2010

EPA 8082
Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD003012
Project:	40100		
Matrix:	Soil	Lab Sample ID:	LCS
Batch No.	CC08-PS1	Date Analyzed:	03-08-2010

LCS/LCSD Report
Unit: ppb

Analyte	Method Blank	Spike Conc.	LCS	LCSD	LCS %Rec.	LCSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
1016	ND	500	483	513	96.6	102.6	6.0	30	46-127
1260	ND	500	467	495	93.4	99.0	5.8	30	31-134

ND: Not Detected (at the specified limit).

ASBESTOS SAMPLING RESULTS

AMERI SCI

AmeriSci Los Angeles
24416 SOUTH MAIN STREET • SUITE 308
CARSON, CA 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

March 11, 2010

Alaska Petroleum Engineering
Attn: Karen Ernst
P.O. Box 5365
Garden Grove, CA 92846-0365

RE: Alaska Petroleum Engineering
Job Number 910031148
P.O. #40100
40100; Mojave Solar LLC

Dear Karen Ernst:

Enclosed are the results for polarized light microscopy analysis (PLM) of the following Alaska Petroleum Engineering samples received at AmeriSci on Monday, March 08, 2010, for a 3 day turnaround:

Sample ID B1NR1 through B10WP

The 102 samples contained in Ziplock Bags were shipped to AmeriSci via Federal Express 8559 6661 1710. These samples were prepared and analyzed according to the EPA Interim Method (EPA 600/M4-82-020 per 40 CFR 763, subpt F, App. A). The samples were evaluated for homogeneity by low power stereomicroscopy. Asbestos fibers were identified by PLM and dispersion staining through the determination of the required optical properties including: morphology, color, pleochroism, refractive indices, birefringence, extinction and sign of elongation. The required analytical information, analysis results, analyst signature and laboratory identification is contained in the Analyst's Report.

This report relates ONLY to the sample analysis expressed as percent asbestos. The CV for this analysis is expected to range from 0.3 to 1.2, depending on the quantity of analyte present. AmeriSci assumes no responsibility for customer supplied data such as "sample type", "location", or "area sampled". This report must not be used to claim product endorsement by AmeriSci, NVLAP or any agency of the U. S. Government. The National Institute of Standards and Technology Accreditation requirements mandate that this report must not be reproduced, except in full without the written approval of the laboratory. This report may contain specific data not covered by NVLAP or ELAP accreditations respectively, if so identified in relevant footnotes.

AmeriSci appreciates this opportunity to serve your organization. Please contact us for any further assistance or with any questions.

Sincerely,

Mary S. David
Client Services Manager

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

Alaska Petroleum Engineering
Attn: Karen Ernst
P.O. Box 5365

Garden Grove, CA 92846-0365

Date Received 03/08/10
Date Examined 03/10/10

AmeriSci Job # 910031148
P.O. #
Page 1 **of** 23

RE: 40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1NR1	910031148-01	*Yes*	8 % (by CVES) by Paola Ducoing on 03/10/10
	Location: North Roof Parapit, Roofing Felt		
Analyst Description: Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** Chrysotile 8.0 % **Other Material:** Non-fibrous 92 %			
B2EXST	910031148-02.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
	Location: Bldg. 2 Exterior Stucco		
Analyst Description: Green, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Finish Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B2EXST	910031148-02.2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
	Location: Bldg. 2 Exterior Stucco		
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1SWI	910031148-03.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
	Location: Bldg. 2 South Wall Stucco		
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Finish Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1SWI	910031148-03.2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
	Location: Bldg. 2 South Wall Stucco		
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Base Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1CMR2	910031148-04L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center Mezzanine Roof 2 VFT			
Analyst Description: Green, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
B1CMR2	910031148-04L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center Mezzanine Roof 2 VFT			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1CFT	910031148-05L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center 9" VFT			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
B1CFT	910031148-05L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center 9" VFT			
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1CR2ACT	910031148-06	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Mezzanine Room 2 2'x4' ACT			
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 65 %, Non-fibrous 35 %			
B1CEIL	910031148-07.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center Ceiling Stucco			
Analyst Description: White/Brown, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 15 %, Non-fibrous 85 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1CEIL	910031148-07.2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center Ceiling Stucco			
Analyst Description: Light Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1CEIL	910031148-07L3	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Center Ceiling Stucco			
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1SWST	910031148-08	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 SW Corner Roof Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1CSTR	910031148-09L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Stair Treads			
Analyst Description: Brown, Homogeneous, Fibrous, Tread **Asbestos Types:** **Other Material:** Cellulose 20 %, Non-fibrous 80 %			
B1CSTR	910031148-09L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Stair Treads			
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1NWFT	910031148-10L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 North West Roof VFT			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Flooring **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1NWFT	910031148-10L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 North West Roof VFT			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
HB7VFT	910031148-11	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: VFT			
Analyst Description: Brown/Grey, Homogeneous, Non-Fibrous, Flooring **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8WP	910031148-12	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Window Putty			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8INCSC	910031148-13	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Interior Skim Coat			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Skim Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8FT2	910031148-14L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Beige VFT w/Black Mastic			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8FT2	910031148-14L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Beige VFT w/Black Mastic			
Analyst Description: Black/Yellow, Heterogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B8FT	910031148-15L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Beige VFT w/Yellow Mastic			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8FT	910031148-15L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Beige VFT w/Yellow Mastic			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8DWC	910031148-16	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Drywall Compound			
Analyst Description: White, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B8INTST	910031148-17	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Interior Stucco			
Analyst Description: Off-White, Homogeneous, Fibrous, Stucco **Asbestos Types:** **Other Material:** Cellulose 10 %, Non-fibrous 90 %			
B8ROOF	910031148-18	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Roof Field			
Analyst Description: Black/White, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 25 %, Fibrous glass 15 %, Non-fibrous 60 %			
B8EXST	910031148-19	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 8 Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1DEBRIS	910031148-20	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Debris Field Shingle			
Analyst Description: Black/Green, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 30 %, Fibrous glass 15 %, Non-fibrous 55 %			
PC	910031148-21	*Yes*	30 % (by CVES) by Paola Ducoing on 03/10/10
Location: North Of B1 Pipe Coating			
Analyst Description: Black, Homogeneous, Fibrous, Pipe Wrap **Asbestos Types:** Chrysotile 30.0 % **Other Material:** Non-fibrous 70 %			
B1R1	910031148-22	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Main Roof Field			
Analyst Description: Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 35 %, Fibrous glass 10 %, Non-fibrous 55 %			
B1WW1	910031148-23.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 West Wall Stucco			
Analyst Description: White, Homogeneous, Non-Fibrous, Stucco-Skim Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1WW1	910031148-23.2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 West Wall Stucco			
Analyst Description: Tan, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Base Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1WW1	910031148-23.3	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 West Wall Stucco			
Analyst Description: White/Brown, Homogeneous, Fibrous, Drywall **Asbestos Types:** **Other Material:** Cellulose 15 %, Non-fibrous 85 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1CBB	910031148-24L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Mezzanine Baseboard w/Yellow Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Baseboard **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1CBB	910031148-24L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Mezzanine Baseboard w/Yellow Mastic			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
FT3	910031148-25	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: North Of Bldg. 1 Debris Field 9" VFT			
Analyst Description: Black, Homogeneous, Non-Fibrous, Flooring **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1ACT	910031148-26L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 12" ACT w/Brown Mastic Bottom			
Analyst Description: White/Brown, Homogeneous, Fibrous, Ceiling Tile **Asbestos Types:** **Other Material:** Cellulose 90 %, Non-fibrous 10 %			
B1ACT	910031148-26L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 12" ACT w/Brown Mastic Bottom			
Analyst Description: Light Grey, Heterogeneous, Non-Fibrous, Cementitious, Plaster **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B1ACT	910031148-26L3	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 12" ACT w/Brown Mastic Bottom			
Analyst Description: Dark Brown, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
FT2-Green	910031148-27L1	*No*	NAD
Location: North Of Bldg. 1 Debris Field 9" Green VFT			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Green, Homogeneous, Non-Fibrous, Flooring			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
FT2-Green	910031148-27L2	*No*	NAD
Location: North Of Bldg. 1 Debris Field 9" Green VFT			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige/Grey, Homogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
FT2-White	910031148-28L1	*Yes*	3 %
Location: North Of Bldg. 1 Debris Field 9" White VFT w/Black Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: White, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types: Chrysotile 3.0 %			
Other Material: Non-fibrous 97 %			
FT2-White	910031148-28L2	*No*	NAD
Location: North Of Bldg. 1 Debris Field 9" White VFT w/Black Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B1NW1	910031148-29.1	*No*	NAD
Location: Bldg. 1 North Wall Stucco			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: White, Homogeneous, Non-Fibrous, Stucco-Finish Coat			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B1NW1	910031148-29.2	*No*	NAD
Location: Bldg. 1 North Wall Stucco			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Light Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Base Coat			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HB2ROOF	910031148-30	*No*	NAD
Location: 3 Layer & Tape Paper			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 65 %, Non-fibrous 35 %			
HB2RM	910031148-31	*Yes*	5 %
Location: Roof Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Silver, Homogeneous, Non-Fibrous, Roofing Mastic			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Non-fibrous 95 %			
HB4ROOF	910031148-32	*Yes*	6 %
Location: Pole Barn Shed			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types: Chrysotile 6.0 %			
Other Material: Cellulose 10 %, Fibrous glass 14 %, Non-fibrous 70 %			
HB2ROOF2	910031148-33	*No*	NAD
Location: Roof Of Water Heater Room (Exterior)			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 45 %, Non-fibrous 55 %			
HB5ROOF	910031148-34		NA
Location: *Do Not Analyze			
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
HB2ATTIC	910031148-35	*Yes*	30 %
Location: Furnace Aircell			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey/Silver, Homogeneous, Fibrous, Aircell			
Asbestos Types: Chrysotile 30.0 %			
Other Material: Cellulose 15 %, Non-fibrous 55 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB2ROOF	910031148-36	*No*	NAD
Location:			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 30 %, Fibrous glass 15 %, Non-fibrous 55 %			
AB2RM	910031148-37	*Yes*	4 %
Location: B2 Roof Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Grey, Homogeneous, Fibrous, Roofing Mastic			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Cellulose 4 %, Non-fibrous 92 %			
AB1ROOF1	910031148-38	*No*	NAD
Location: South Roof			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 45 %, Non-fibrous 55 %			
AB1ROOF2	910031148-39	*No*	NAD
Location: B1 Main Roof			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Bulk Material			
Asbestos Types:			
Other Material: Cellulose 45 %, Non-fibrous 55 %			
B2ROOF	910031148-40	*No*	NAD
Location: Roof Field			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 10 %, Fibrous glass 15 %, Non-fibrous 75 %			
B4ROOF	910031148-41	*No*	NAD
Location: Roof Field			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 35 %, Non-fibrous 65 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B4RM	910031148-42	*Yes*	3 % (by CVES) by Paola Ducoing on 03/10/10
Location: Roof Mastic			
Analyst Description: Black/Grey, Homogeneous, Fibrous, Roofing Mastic **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Cellulose 15 %, Non-fibrous 82 %			
B7ROOF	910031148-43	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Roof Field			
Analyst Description: Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 35 %, Non-fibrous 65 %			
B7RM	910031148-44	*Yes*	5 % (by CVES) by Paola Ducoing on 03/10/10
Location: Roof Mastic			
Analyst Description: Black/Grey, Homogeneous, Fibrous, Roofing Mastic **Asbestos Types:** Chrysotile 5.0 % **Other Material:** Non-fibrous 95 %			
B1SWC	910031148-45	*Yes*	3 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 SW Room Ceiling			
Analyst Description: Silver/Brown/Black, Homogeneous, Fibrous, Ceiling Material **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97 %			
B1SWD	910031148-46	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Kem - Air Sample			
Analyst Description: Beige, Homogeneous, Fibrous, Bulk Material **Asbestos Types:** **Other Material:** Cellulose 20 %, Non-fibrous 80 %			
B1BTP	910031148-47	*Yes*	10 % (by CVES) by Paola Ducoing on 03/10/10
Location: B1 Tar Paper Basement			
Analyst Description: Black, Homogeneous, Fibrous, Tar Paper **Asbestos Types:** Chrysotile 10.0 % **Other Material:** Cellulose 35 %, Non-fibrous 55 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1ROOF	910031148-48	*No*	NAD
Location: Roof Field Perimeter			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 35 %, Non-fibrous 65 %			
B1SWEX	910031148-49	*Yes*	8 %
Location: Pipe L. Ext. SW			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Brown, Homogeneous, Fibrous, Pipe Insulation **Asbestos Types:** Chrysotile 8.0 % **Other Material:** Cellulose 82 %, Non-fibrous 10 %			
B2INT2	910031148-50	*No*	NAD
Location: Bldg. 2 Interior T. Paper			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Barrier Paper **Asbestos Types:** **Other Material:** Cellulose 65 %, Non-fibrous 35 %			
B5TR	910031148-51	*Yes*	30 %
Location: Bldg. 5 Transite			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Homogeneous, Fibrous, Transite **Asbestos Types:** Crocidolite 10.0 %, Chrysotile 20.0 % **Other Material:** Non-fibrous 70 %			
B5P1EXT	910031148-52	*Yes*	2 %
Location: Bldg. 5 Exterior Window Putty			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %			
B5P2INT	910031148-53	*Yes*	2 %
Location: Bldg. 5 Interior Window Putty			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B6INT1	910031148-54	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 6 Interior Stucco			
Analyst Description: Beige/Green, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B6PW	910031148-55	*Yes*	30 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 6 Pipe Wrap			
Analyst Description: Black/White, Homogeneous, Fibrous, Pipe Wrap **Asbestos Types:** Chrysotile 30.0 % **Other Material:** Non-fibrous 70 %			
B6WP	910031148-56	*Yes*	2 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 6 Window Putty			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %			
B6EWSOF	910031148-57	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 6 East Sable Shingle			
Analyst Description: Black, Homogeneous, Non-Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 8 %, Non-fibrous 92 %			
B10ESC	910031148-58	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 10 Exterior Stucco			
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Cementitious, Stucco **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B10DWC	910031148-59	*Yes*	3 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 10 Drywall Compound			
Analyst Description: Beige, Homogeneous, Fibrous, Joint Compound / Tape **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Cellulose 10 %, Non-fibrous 87 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB5EXST	910031148-60		NA
Location: (Sample Not Submitted) Bldg. 5 Exterior Stucco			
Analyst Description: Bulk Material **Asbestos Types:** **Other Material:**			
AB3PC	910031148-61	*Yes*	30 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 3 Pipe Coating			
Analyst Description: Black/White, Homogeneous, Fibrous, Pipe Wrap **Asbestos Types:** Chrysotile 30.0 % **Other Material:** Non-fibrous 70 %			
B4BB	910031148-62L1	*Yes*	3 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 Baseboard			
Analyst Description: Black, Homogeneous, Non-Fibrous, Baseboard **Asbestos Types:** Chrysotile 3.0 % **Other Material:** Non-fibrous 97 %			
B4BB	910031148-62L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 Baseboard			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B4RT	910031148-63	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 Roofing Tiles (Stoned)			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Cement Tile **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B4ROOF	910031148-64	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 Roof Field			
Analyst Description: Black, Homogeneous, Fibrous, Roofing **Asbestos Types:** **Other Material:** Cellulose 15 %, Non-fibrous 85 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B4LINO	910031148-65L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 VFT w/Black Mastic			
Analyst Description: Grey/Tan, Homogeneous, Fibrous, Flooring			
Asbestos Types:			
Other Material: Cellulose 25 %, Non-fibrous 75 %			
B4LINO	910031148-65L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 VFT w/Black Mastic			
Analyst Description: Brown/Yellow, Homogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B4LINO	910031148-65L3	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 VFT w/Black Mastic			
Analyst Description: Black, Homogeneous, Fibrous, Barrier Paper			
Asbestos Types:			
Other Material: Cellulose 65 %, Non-fibrous 35 %			
B4VFT	910031148-66L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 VFT w/Black Mastic			
Analyst Description: Grey, Homogeneous, Non-Fibrous, Floor Tile			
Asbestos Types: Chrysotile 4.0 %			
Other Material: Non-fibrous 96 %			
B4VFT	910031148-66L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 VFT w/Black Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
HB2TP	910031148-67	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Tar Paper Under Wood Floor			
Analyst Description: Black, Homogeneous, Fibrous, Tar Paper			
Asbestos Types:			
Other Material: Cellulose 65 %, Non-fibrous 35 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
H32WP	910031148-68	*No*	NAD
Location: Window Putty			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Homogeneous, Non-Fibrous, Window Putty			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B2INT1	910031148-69	*Yes*	2 %
Location: Bldg. 2 Interior Drywall Compound			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Homogeneous, Fibrous, Joint Compound / Tape			
Asbestos Types: Chrysotile 2.0 %			
Other Material: Cellulose 10 %, Non-fibrous 88 %			
AB1RM	910031148-70	*Yes*	5 %
Location: Roof Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/Grey, Homogeneous, Non-Fibrous, Roofing Mastic			
Asbestos Types: Chrysotile 5.0 %			
Other Material: Non-fibrous 95 %			
AB1ROOF3	910031148-71	*No*	NAD
Location: Roof Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black/White, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 15 %, Non-fibrous 85 %			
HB5ROOF	910031148-72		NA
Location: Roof Mastic			
Analyst Description: Bulk Material			
Asbestos Types:			
Other Material:			
Comment: Missing sample.			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
HB1ROOF	910031148-73	*No*	NAD
Location: Roof Field			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 20 %, Fibrous glass 15 %, Non-fibrous 65 %			
HB7ROOF	910031148-74	*Yes*	3 %
Location: Roof Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types: Chrysotile 3.0 %			
Other Material: Cellulose 20 %, Fibrous glass 15 %, Non-fibrous 62 %			
HB6ROOF	910031148-75	*Yes*	3 %
Location: Roof Mastic			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Roofing			
Asbestos Types: Chrysotile 3.0 %			
Other Material: Cellulose 20 %, Fibrous glass 15 %, Non-fibrous 62 %			
AB1WP	910031148-76	*No*	NAD
Location: Window Putty			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Homogeneous, Non-Fibrous, Window Putty			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
AB1R4CC	910031148-77	*No*	NAD
Location: "Cottage Cheese" Room 4			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Beige, Homogeneous, Non-Fibrous, Acoustic Ceiling			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
AB1R5LINO	910031148-78	*Yes*	15 %
Location: Room 5 Linoleum			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Brown/Grey, Homogeneous, Fibrous, Linoleum			
Asbestos Types: Chrysotile 15.0 %			
Other Material: Cellulose 5 %, Non-fibrous 80 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB1EXTST	910031148-79.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Exterior Stucco			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Finish Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
AB1EXTST	910031148-79.2	*Yes*	Trace (<1 %) (by CVES) by Paola Ducoing on 03/10/10
Location: Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Base Coat **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
AB1R3VFT	910031148-80L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Room 3 VFT w/Black Mastic			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
AB1R3VFT	910031148-80L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Room 3 VFT w/Black Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
AB1R2VFT	910031148-81L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Room 2 VFT w/Black Mastic			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
AB1R2VFT	910031148-81L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Room 2 VFT w/Black Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB1R2DWC	910031148-82	*Yes*	Trace (<1 %) (by CVES) by Paola Ducoing on 03/10/10
Location: Room 2 Drywall Compound			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** Chrysotile <1. % **Other Material:** Non-fibrous 100 %			
AB2DWC	910031148-83	*Yes*	2 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Drywall Compound			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Joint Compound **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %			
AB2WP	910031148-84	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Window Putty			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
AB2VFT2	910031148-85	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Kitchen VFT			
Analyst Description: Tan, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
AB2VFT1	910031148-86L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Main House VFT			
Analyst Description: Brown, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
AB2VFT1	910031148-86L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Main House VFT			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

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PLM Bulk Asbestos Report

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Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
AB2EXST	910031148-87.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Exterior Stucco			
Analyst Description: White, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Finish Coat			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
AB2EXST	910031148-87.2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Exterior Stucco			
Analyst Description: Grey, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
AB2LINO	910031148-88	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 2 Linoleum			
Analyst Description: Green/Grey/Black, Homogeneous, Non-Fibrous, Linoleum			
Asbestos Types:			
Other Material: Cellulose 35 %, Non-fibrous 65 %			
AB4ST	910031148-89	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 4 Exterior Stucco			
Analyst Description: Grey/Cream, Heterogeneous, Non-Fibrous, Cementitious, Stucco			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B1NWBB	910031148-90L1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 North West Room Baseboard w/Mastic			
Analyst Description: Black, Homogeneous, Non-Fibrous, Baseboard			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B1NWBB	910031148-90L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 North West Room Baseboard w/Mastic			
Analyst Description: Yellow, Homogeneous, Non-Fibrous, Mastic			
Asbestos Types:			
Other Material: Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B1EW1	910031148-91.1	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 East Wall Stucco			
Analyst Description: Off-White, Homogeneous, Non-Fibrous, Stucco-Skim Coat			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B1EW1	910031148-91.2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 East Wall Stucco			
Analyst Description: Beige, Heterogeneous, Non-Fibrous, Cementitious, Stucco-Base Coat			
Asbestos Types:			
Other Material: Non-fibrous 100 %			
B1RF2-1	910031148-92	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Debris Field White Pebble Roof Felt			
Analyst Description: Black/White, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Fibrous glass 15 %, Non-fibrous 85 %			
B1RF2-2	910031148-93	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 1 Debris Field Brown Pebble Roof Felt			
Analyst Description: Black/Brown, Homogeneous, Fibrous, Roofing			
Asbestos Types:			
Other Material: Cellulose 35 %, Non-fibrous 65 %			
HB2B1L	910031148-94	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: NW Bathroom Linoleum			
Analyst Description: Tan/Green, Homogeneous, Fibrous, Linoleum			
Asbestos Types:			
Other Material: Cellulose 35 %, Non-fibrous 65 %			
HB2B1L	910031148-95	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: NE Bathroom Linoleum			
Analyst Description: Tan/Green, Homogeneous, Fibrous, Linoleum			
Asbestos Types:			
Other Material: Cellulose 35 %, Non-fibrous 65 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B10-TP	910031148-96	*No*	NAD
Location: Tar Paper Under Stucco			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Fibrous, Barrier Paper **Asbestos Types:** **Other Material:** Cellulose 65 %, Non-fibrous 35 %			
B1W2WD	910031148-97	*Yes*	2 %
Location: Bldg. 1 West Wall Window 2, Window Putty			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Grey, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** Chrysotile 2.0 % **Other Material:** Non-fibrous 98 %			
B7EXTLINO	910031148-98	*No*	NAD
Location: Bldg. 7 East Exterior Linoleum			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Multi-Colored, Homogeneous, Fibrous, Linoleum **Asbestos Types:** **Other Material:** Cellulose 35 %, Non-fibrous 65 %			
B1R5UFT	910031148-99L1	*Yes*	4 %
Location: Bldg. 1 Mezzanine South Room 9" Green VFT			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Green, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
B1R5UFT	910031148-99L2	*No*	NAD
Location: Bldg. 1 Mezzanine South Room 9" Green VFT			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B6R5SC	910031148-100	*No*	NAD
Location: Bldg. 6 Room 5 N. Wall Skim Coat			(by CVES) by Paola Ducoing on 03/10/10
Analyst Description: Off-White, Heterogeneous, Non-Fibrous, Cementitious, Skim Coat **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

See Reporting notes on last page

PLM Bulk Asbestos Report

40100; Mojave Solar LLC

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B7EXFT	910031148-101L1	*Yes*	4 % (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 7 Exterior VFT Eastern Side			
Analyst Description: Tan, Homogeneous, Non-Fibrous, Floor Tile **Asbestos Types:** Chrysotile 4.0 % **Other Material:** Non-fibrous 96 %			
B7EXFT	910031148-101L2	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 7 Exterior VFT Eastern Side			
Analyst Description: Black, Homogeneous, Non-Fibrous, Mastic **Asbestos Types:** **Other Material:** Non-fibrous 100 %			
B10WP	910031148-102	*No*	NAD (by CVES) by Paola Ducoing on 03/10/10
Location: Bldg. 10 Window Putty			
Analyst Description: Beige, Homogeneous, Non-Fibrous, Window Putty **Asbestos Types:** **Other Material:** Non-fibrous 100 %			

Reporting Notes:

Analyzed By: Paola Ducoing _____; Date Analyzed: 3/10/2010 3/11/10

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0, CA ELAP lab #2322); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

Reviewed By: _____ 3/11/10

CHAIN OF CUSTODY

9100311148

ALASKA PETROLEUM ENVIRONMENTAL ENGINEERING

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TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
40160	Mojave Solar LLC	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
AB1R3UFT	3/3/10		Room 3 UFT w/ black mastic	S	P								X
AB1R2UFT			Rom 2 "										
AB1R2DWC			Room 2 drywall compound " "										
AB2DWC			Bld 2										
AB2 WP			Bld 2 window putty										
AB2 UFT2			Bld 2 Kitchen UFT										
AB2 UFT1			Bld 2 Main main house UFT										
AB2 EXST			Bld 2 exterior stucco										
AB2 LINO			Bld 2 linoleum										
AB4 ST	3/3/10		Bld 4 exterior stucco	S	P								X

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1347			3/4/10 16:35		

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TURNAROUND TIME:

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PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
40100	Mojave Solar CCI	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
AB5 Ext	3/2/10		Bld 5 exterior Stucco	S	P							X	
AB3 PC			Bld 3 pipe roofing										
B4 BD			Bld 4 Baseboard										
B4 Rf			Bld 4 roofing tiles (stored)										
B4 RM			Bld 4 roof field										
B4 Insu			Bld 4 Insulation										
B4 VFT			Bld 4 VFT w/ black mastic										
HB2 TP			Tar paper under wood floor										
HB2 WP			window putty										
B2 Int 1	3/2/10		Bld 2 interior drywall compound	S	P							X	

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 347			3/4/10 16:35		

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PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
40100	Mojave Solar LLC	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
B2 Int2	3/2/10		Bld 2 interior test patch	S	P							X	X
B5 TR			Bld 5 transite										
B5 P1 EXT			Bld 5 exterior window putty										
B5 P2 Int			" " interior " "										
B6 Int1			Bld 6 interior stucco										
B6 PW			Bld 6 pipe wrap										
B6 WP			Bld 6 window putty										
B6 EW Sh			Bld 6 east gable shingle										
B10 ESC	↓		Bld 10 exterior stucco										
B10 DWC	3/2/10		Bld 10 drywall compound	S	P							X	X

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1347			3/4/10 16:35		

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PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
B2 roof	3/2/10		Roof Field	S	P							X	X
B4 Roof													
B4 RM			Roof matrix										
B7 Roof			roof field										
B7 RM			Roof Matrix										
B1 SWC			B1 1, SW room ceiling										
B1 SW D			Kem-Air sample										
B1 BTP			B1 tan paper Segment										
B1 Roof			roof field perimeter										
B1 SWEX	3/2/10		pipe lagging ext SW	S	P							X	X

Total Number of Containers

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
64	3/4/10 1317			3/4/10 16:35		10

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TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
40100	Mojave Sultan LC	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Pesticides/Herbicides 8081A / 8151A	OTHER: Asbestos "PLM" 600R/R-93-116
PC	3/1/10		north of B1 pipe coating	S	P								X
B1 R1			B1D 1 main roof field	S									
B1 WW1			B1D 1 west wall stucco	S									
B1 C BB			B1D 1 mezzanine baseboard w/yellow mastic	S									
FT3			north of B1D 1 debris field 9" UFT	S									
B1 AC1			B1D 1 4" AC1 w/ brown mastic	S									
~~B1 AC~~				S									
FT2			North of B1D 1 debris field 9" green UFT	S									
FT2			" " " " " 9" white UFT w/blk mastic	S									
B1 NW1	3/1/10		B1D 1 north wall stucco	S	P								X

Total Number of Containers: 9

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1347			3/4/10		

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PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
410100	Mojave Solar LLC	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
HB7 UFT	3/1/10		UFT	S	P							X	X
BX WP			Bld 8 window putty										
BX Int SC			Bld 8 interior skimcoat										
BX FT2			Bld 8 beige UFT w/ black mastic										
BX FT			Bld 8 beige UFT w/yellow mastic										
BX DWC			Bld 8 dry wall compound										
BX Int ST			Bld 8 interior stucco										
BX Roof			Bld 8 roof field										
BX Ext ST			Bld 8 exterior stucco										
B1 Admin	3/1/10		Bld 1 admin field shingle	S	P							X	X

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1617			3/4/10 1635		

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TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER: 40100

PROJECT NAME: Moving Solar LLC

SAMPLERS: (SIGNATURE)

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Pesticides/Herbicides 8081A / 8151A	OTHER: Asbestos "PLM" 600R/R-93-116
B1 NR1	3/1/10		north roof parapit, roofing felt	S									X
B2 EX ST			Bld 2 exterior stucco	S									
B1 SW1			Bld 2 southwall stucco	S									
B1 EM R2			Bld 1 center mezzanine roof & UFT	S									
B1 CFT			Bld 1 center 9" UFT	S									
B1 CR2 ACT			Bld 1 mezzanine room & 2x4' ACT	S									
B1 C Ceil			Bld 1 center ceiling stucco	S									
B1 SW ST			Bld 1 SW corner roof stucco	S									
B1 C STR			Bld 1 stair treads	S									
B1 NW FT	3/1/10		Bld 1 North west roof UFT	S									X

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
[signature]	3/4/10 1347	[signature]	[signature]	3/4/10 16:35		

CHAIN OF CUSTODY

91003148

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TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER: 40100

PROJECT NAME: Mojave Solar LLC

SAMPLERS (SIGNATURE):

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Pesticides/Herbicides 8081A / 8151A	OTHER: Asbestos "PLM" 600R/R-93-116
B6R5SC	3/3/10		B10 5 room 5 N. wall skim coat	S	P								X
B7EXFT			B11 7 exterior UFT, eastern side	S									
B10WP			B10 10 window putty	S									
				S									
				S									
				S									
				S									
				S									
				S									
	3/3/10			S	P								X

Total Number of Containers: 3

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
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TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
4000	Mojave Solar LLC	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
HB2 roof	3/4/10		3 layer + tape patch	S	P							X	
HB2 RM			roof mastic										
HB4 Roof			pole barn shed										
HB2roof2			roof of water heater room (exterior)										
HB5 roof													
HB2 Attic			Furnace Aircell										
AB2 roof													
AB2 RM			B2 roof mastic										
AB1 Roof1			B1 South roof										
AB1 roof 2	3/4/10		B1 main roof	S	P							1	
												Total Number of Containers	10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1347			3/4/10 16:35		

CHAIN OF CUSTODY

910031148

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PROJECT NUMBER	PROJECT NAME	SAMPLERS: (SIGNATURE)
40100	Mojave Solar LLC	

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Asbestos "PCM"	OTHER: Asbestos "PLM" 600R/R-93-116
AB1 RM	3/2/10		roof mastic	S	P							X	X
AB 1 roof3													
HB 5 roof													
HB1 roof			roof fields										
HB7 roof													
HB6 roof													
AB1 WP			window putty										
AB1 R4 CC			"cottage cheese" Room 4										
AB1 R5 Liv			Room 5 linoleum										
AB1 ext st	3/2/10		exterior stucco	S	P							X	X

Total Number of Containers

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1347			3/4/10 1935		

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91003 1148

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TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER: 40100

PROJECT NAME: Mojave Solar LLC

SAMPLERS: (SIGNATURE) [signature]

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Pesticides/Herbicides 8081A / 8151A	OTHER: Asbestos "PLM" 600R/R-93-116
B1NWBB	3/3/10		Bld 1 northwest room baseboard w/mastic	S	P								✓
B1EW1			" east wall stucco	S									
B1RF2-1			" debris field white rubble roof felt	S									
B1RF2-2			" " brown " "	S									
HB2B1L			NW bathroom linoleum	S									
HB2B1L			NE " "	S									
~~B7~~ B10-TP			~~Bld 7 roof field~~ Tar paper under stucco	S									
B1W1WD			Bld 1, West wall windows, window putty	S									
B7EXTLIN			Bld 7. ~~east~~ exterior linoleum	S									
B1RSUFT	3/3/10		Bld 1 mezzanine south room 9" green VFT	S	P								✓

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
[signature]	3/4/10 1349	Karen Ernst	Karen Ernst	3/4/10 16:35		

HERBICIDES & PESTICIDES

ABC Environmental Laboratories

Dr. Wang 3/9/2010
Alpha Scientific Corporation
16760 Gridley Road
Cerritos, CA 90703

Project:	AD003012
Project Site:	Mojave Solar LLC
Sample Date:	3/1/2010
Lab Job No.:	AS10C010

Dear Dr. Wang:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 3/6/2010 and analyzed by the following EPA method:

EPA 8151A (Chlorinated Herbicides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

1640 S. Grove Ave., Suite B
Ontario, CA 91761

Tel: (909)923-8628
(562)413-8343
Fax: (909)923-8628

ABC Environmental Laboratories

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10C010
Project:	AD003012	Date Sampled:	3/1/2010
Project Site:	Mojave Solar LLC	Date Received:	3/6/2010
Matrix:	Soil	Date Extracted:	3/6/2010
Batch No.:	0309-HES-S	Date Analyzed:	3/9/2010
		Date Reported	3/9/2010

EPA 8151A (Chlorinated Herbicides)

Reporting Unit: µg/kg (PPB)

Lab Sample I.D.		Method Blank	AS10C010-1		
Client Sample I.D.			AG-1		
Compound	RL				
2,4-DB	10	ND	ND		
2,4-D	5	ND	ND		
Dalapon	5	ND	ND		
Dicamba	5	ND	ND		
Dichloroprop	5	ND	ND		
Dinoseb	5	ND	ND		
MCPA	200	ND	ND		
MCPP	200	ND	ND		
4-Nitrophenol	5	ND	ND		
Pentachlorophenol	5	ND	ND		
Silvex	5	ND	ND		

ND: Not Detected (Below RL).

RL: Reporting Limit.

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(562)413-8343
Fax: (909)923-8628

ABC Environmental Laboratories

EPA 8151A
Batch QA/QC Report

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10C010
Project:	AD003012	Lab Sample ID:	AS10C010-1
Matrix:	Soil	Date Analyzed:	3/9/2010
Batch No.:	0309-HES-S	Date Reported	3/9/2010

I. MS/MSD Report

Unit: µg/kg

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Dicamba	ND	50.0	43.1	42.5	86	85	1	≤30	45-198
Silvex	ND	50.0	40.3	39.5	81	79	2	≤30	38-198
2,4,5-T	ND	50.0	41.6	45.2	83	90	8	≤30	62-176

II. LCS Report

Unit:µg/kg

Compound	MB	Report Value	True Value	Rec. %	Accept Limit
Dicamba	ND	47.6	50	95	50 -180
Silvex	ND	43.5	50	87	42 -180
2,4,5-T	ND	45.1	50	90	68 -160

ND: Not Detected (Below Reporting Limit).

MB : Method Blank.

1640 S. Grove Ave., Suite B
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(562)413-8343
Fax: (909)923-8628

ABC Environmental Laboratories

Dr. Wang 4/13/2010
Alpha Scientific Corporation
16760 Gridley Road
Cerritos, CA 90703

Project:	AD004031
Project Site:	Mojave Solar LLC
Sample Date:	4/9/2010
Lab Job No.:	AS10D011

Dear Dr. Wang:

Enclosed please find the analytical report for the samples received by ABC Environmental Laboratories on 4/9/2010 and analyzed by the following EPA method:

EPA 8151A (Chlorinated Herbicides)

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

ABC Environmental Laboratories is certified by the CA DHS (Certificate No.2584). Thank you for giving us the opportunity to serve you.

Please feel free to call me at (909) 923-8628 if our laboratory can be of further service to you.

Respectfully,

ABC Environmental Laboratories, Inc.

Ken Zheng, M.S.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

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Ontario, CA 91761

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(562)413-8343
Fax: (909)923-8628

ABC Environmental Laboratories

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10D011
Project:	AD004031	Date Sampled:	4/9/2010
Project Site:	Mojave Solar LLC	Date Received:	4/9/2010
Matrix:	Soil	Date Extracted:	4/10/2010
Batch No.:	0412-HES-S	Date Analyzed:	4/12/2010
		Date Reported	4/13/2010

EPA 8151A (Chlorinated Herbicides)

Reporting Unit: µg/kg (PPB)

Lab Sample I.D.		Method Blank	AS10D011-1	AS10D011-2	AS10D011-3	AS10D011-4
Client Sample I.D.			1	2	3	4
Compound	RL					
2,4-DB	10	ND	ND	ND	ND	ND
2,4-D	5	ND	ND	ND	ND	ND
Dalapon	5	ND	ND	ND	ND	ND
Dicamba	5	ND	ND	ND	ND	ND
Dichloroprop	5	ND	ND	ND	ND	ND
Dinoseb	5	ND	ND	ND	ND	ND
MCPA	200	ND	ND	ND	ND	ND
MCPP	200	ND	ND	ND	ND	ND
4-Nitrophenol	5	ND	ND	ND	ND	ND
Pentachlorophenol	5	ND	ND	ND	ND	ND
Silvex	5	ND	ND	ND	ND	ND

ND: Not Detected (Below RL).

RL: Reporting Limit.

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Ontario, CA 91761

Tel: (909)923-8628
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Fax: (909)923-8628

ABC Environmental Laboratories

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10D011
Project:	AD004031	Date Sampled:	4/9/2010
Project Site:	Mojave Solar LLC	Date Received:	4/9/2010
Matrix:	Soil	Date Extracted:	4/10/2010
Batch No.:	0412-HES-S	Date Analyzed:	4/12/2010
		Date Reported	4/13/2010

EPA 8151A (Chlorinated Herbicides)

Reporting Unit: µg/kg (PPB)

Lab Sample I.D.		AS10D011-5	AS10D011-6	AS10D011-7	AS10D011-8	AS10D011-9
Client Sample I.D.		5	6	7	8	9
Compound	RL					
2,4-DB	10	ND	ND	ND	ND	ND
2,4-D	5	ND	ND	ND	ND	ND
Dalapon	5	ND	ND	ND	ND	ND
Dicamba	5	ND	ND	ND	ND	ND
Dichloroprop	5	ND	ND	ND	ND	ND
Dinoseb	5	ND	ND	ND	ND	ND
MCPA	200	ND	ND	ND	ND	ND
MCPP	200	ND	ND	ND	ND	ND
4-Nitrophenol	5	ND	ND	ND	ND	ND
Pentachlorophenol	5	ND	ND	ND	ND	ND
Silvex	5	ND	ND	ND	ND	ND

ND: Not Detected (Below RL).

RL: Reporting Limit.

1640 S. Grove Ave., Suite B
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(562)413-8343
Fax: (909)923-8628

ABC Environmental Laboratories

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10D011
Project:	AD004031	Date Sampled:	4/9/2010
Project Site:	Mojave Solar LLC	Date Received:	4/9/2010
Matrix:	Soil	Date Extracted:	4/10/2010
Batch No.:	0412-HES-S	Date Analyzed:	4/12/2010
		Date Reported	4/13/2010

EPA 8151A (Chlorinated Herbicides)

Reporting Unit: µg/kg (PPB)

Lab Sample I.D.		AS10D011-10	AS10D011-11	AS10D011-12		
Client Sample I.D.		10	11	12		
Compound	RL					
2,4-DB	10	ND	ND	ND		
2,4-D	5	ND	ND	ND		
Dalapon	5	ND	ND	ND		
Dicamba	5	ND	ND	ND		
Dichloroprop	5	ND	ND	ND		
Dinoseb	5	ND	ND	ND		
MCPA	200	ND	ND	ND		
MCPP	200	ND	ND	ND		
4-Nitrophenol	5	ND	ND	ND		
Pentachlorophenol	5	ND	ND	ND		
Silvex	5	ND	ND	ND		

ND: Not Detected (Below RL).

RL: Reporting Limit.

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Ontario, CA 91761

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(562)413-8343
Fax: (909)923-8628

ABC Environmental Laboratories

EPA 8151A
Batch QA/QC Report

Client:	Alpha Scientific Corporation	Lab Job No.:	AS10D011
Project:	AD004031	Lab Sample ID:	AS10D011-12
Matrix:	Soil	Date Analyzed:	4/12/2010
Batch No.:	0412-HES-S	Date Reported	4/13/2010

I. MS/MSD Report

Unit: µg/kg

Compound	Sample Conc.	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	%RPD	%RPD Accept Limit	%Rec. Accept Limit
Dicamba	ND	50.0	44.2	51.3	88	103	15	≤30	45-198
Silvex	ND	50.0	45.8	50.5	92	101	10	≤30	38-198
2,4,5-T	ND	50.0	44.5	52.4	89	105	16	≤30	62-176

II. LCS Report

Unit:µg/kg

Compound	MB	Report Value	True Value	Rec. %	Accept Limit
Dicamba	ND	45.2	50	90	50 -180
Silvex	ND	43.1	50	86	42 -180
2,4,5-T	ND	44.6	50	89	68 -160

MB : Method Blank.

1640 S. Grove Ave., Suite B
Ontario, CA 91761

Tel: (909)923-8628
(562)413-8343
Fax: (909)923-8628

04-13-2010

Mr. Glenn Stillman
Alaska Petroleum Environmental Engineering
P.O. Box 5365
Garden Grove, CA 92846-0365

Project: 40100
Project Site: Mojave Solar LLC
Sample Date: 04-09-2010
Lab Job No.: AD004031

Dear Mr. Stillman:

Enclosed please find the analytical report for the sample(s) received by Alpha Scientific Corporation on 04-09-2010 and analyzed by the following EPA methods:

EPA 8081A (Organochlorine Pesticides)
EPA 8151A (Chlorinated Herbicides)

EPA 8151A analyses were subcontracted to ABC Environmental Laboratories (ELAP # 2584).

All analyses have met the QA/QC criteria of this laboratory.

The sample(s) arrived in good conditions (i.e., chilled, intact) and with a chain of custody record attached.

Alpha Scientific Corporation is a CA DHS certified laboratory (Certificate Number 2633). Thank you for giving us the opportunity to serve you. Please feel free to call me at (562) 809-8880 if our laboratory can be of further service to you.

Sincerely,

Roger Wang, Ph. D.
Laboratory Director

Enclosures

This cover letter is an integral part of this analytical report.

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD004031
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	04-09-2010
Matrix:	Soil	Date Received:	04-09-2010
Prep. Method:	EPA 3550B	Date Prepared:	04-09-2010
Batch No.	CD12-PS1	Date Analyzed:	04-12-2010
		Date Reported:	04-13-2010

EPA 8081A (Organochlorine Pesticides)
Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	AD004031-1	AD004031-2	AD004031-3	AD004031-4
CLIENT SAMPLE I.D.				1	2	3	4
DILUTION FACTOR			1	1	1	1	1
COMPOUND	**MDL**	**PQL**					
Alpha-BHC	3	5	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND
Betta-BHC	3	5	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND
Chlordane	15	25	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
ND=Not Detected (below DF × MDL).
J=Result is beween DF × MDL and DF × PQL; * Obtained from a higher dilution analysis.

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD004031
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	04-09-2010
Matrix:	Soil	Date Received:	04-09-2010
Prep. Method:	EPA 3550B	Date Prepared:	04-09-2010
Batch No.	CD12-PS1	Date Analyzed:	04-12-2010
		Date Reported:	04-13-2010

EPA 8081A (Organochlorine Pesticides)
Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	AD004031-5	AD004031-6	AD004031-7	AD004031-8
CLIENT SAMPLE I.D.				5	6	7	8
DILUTION FACTOR			1	1	1	1	1
COMPOUND	**MDL**	**PQL**					
Alpha-BHC	3	5	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND
Betta-BHC	3	5	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND
Chlordane	15	25	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
ND=Not Detected (below DF × MDL).
J=Result is beween DF × MDL and DF × PQL; * Obtained from a higher dilution analysis.

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD004031
Project:	40100		
Project Site:	Mojave Solar LLC	Date Sampled:	04-09-2010
Matrix:	Soil	Date Received:	04-09-2010
Prep. Method:	EPA 3550B	Date Prepared:	04-09-2010
Batch No.	CD12-PS1	Date Analyzed:	04-12-2010
		Date Reported:	04-13-2010

EPA 8081A (Organochlorine Pesticides)
Reporting Unit: µg/kg (ppb)

LAB SAMPLE I.D.			MB	AD004031-9	AD004031-10	AD004031-11	AD004031-12
CLIENT SAMPLE I.D.				9	10	11	12
DILUTION FACTOR			1	1	1	1	1
COMPOUND	**MDL**	**PQL**					
Alpha-BHC	3	5	ND	ND	ND	ND	ND
Gamma-BHC (Lindane)	3	5	ND	ND	ND	ND	ND
Heptachlor	3	5	ND	ND	ND	ND	ND
Aldrin	3	5	ND	ND	ND	ND	ND
Betta-BHC	3	5	ND	ND	ND	ND	ND
Delta-BHC	3	5	ND	ND	ND	ND	ND
Heptachlor Epoxide	3	5	ND	ND	ND	ND	ND
Endosulfan I	3	5	ND	ND	ND	ND	ND
4,4'-DDE	3	5	ND	ND	ND	ND	ND
Dieldrin	3	5	ND	ND	ND	ND	ND
Endrin	3	5	ND	ND	ND	ND	ND
4,4'-DDD	3	5	ND	ND	ND	ND	ND
Endosulfan II	3	5	ND	ND	ND	ND	ND
4,4'-DDT	3	5	ND	ND	ND	ND	ND
Endrin Aldehyde	3	5	ND	ND	ND	ND	ND
Endosulfan Sulfate	3	5	ND	ND	ND	ND	ND
Methoxychlor	3	5	ND	ND	ND	ND	ND
Chlordane	15	25	ND	ND	ND	ND	ND
Toxaphene	60	100	ND	ND	ND	ND	ND

MDL=Method Detection Limit; PQL=Practical Quantitation Limit; MB=Method Blank;
ND=Not Detected (below DF × MDL).
J=Result is beween DF × MDL and DF × PQL; * Obtained from a higher dilution analysis.

04-13-2010

EPA 8081A (Pesticides)
Batch QA/QC Report

Client:	Alaska Petroleum Environmental Engineering	Lab Job No.:	AD004031
Project:	40100		
Matrix:	Soil	Lab Sample ID:	AD004031-1
Batch No.	CD12-PS1	Date Analyzed:	04-12-2010

I. MS/MSD Report

Unit: ppb

Analyte	Method Blank	Spike Conc.	MS	MSD	MS %Rec.	MSD %Rec.	% RPD	%RPD Accept. Limit	%Rec Accept. Limit
Gamma-BHC	ND	20	19.9	18.9	99.5	94.5	5.2	30	46-127
Heptachlor	ND	20	21.8	24.5	109.0	122.5	11.7	30	31-134
Aldrin	ND	20	21.4	22.2	107.0	111.0	3.7	30	36-132
Dieldrin	ND	20	22.7	22.8	113.5	114.0	0.4	30	21-134
Endrin	ND	20	22.8	23.1	114.0	115.5	1.3	30	42-139
4,4'-DDT	ND	20	23.2	23.8	116.0	119.0	2.6	30	21-134

II. LCS Result

Unit: ppb

Analyte	LCS Report Value	True Value	Rec.%	Accept. Limit
Gamma-BHC	20.0	20	100.0	80-120
Heptachlor	20.8	20	104.0	80-120
Aldrin	21.7	20	108.5	80-120
Dieldrin	21.8	20	109.0	80-120
Endrin	20.2	20	101.0	80-120
4,4'-DDT	20.1	20	100.5	80-120

ND: Not Detected.

CHAIN OF CUSTODY

CHAIN OF CUSTODY

AD03012 1/2

ALASKA PETROLEUM ENVIRONMENTAL ENGINEERING

P.O. BOX 5365
GARDEN GROVE
CALIFORNIA
92846-0365
(714) 897-2733
FAX (714) 897-0031

P.O. BOX 81904
FAIRBANKS
ALASKA 99705
(907) 479-9555

TURNAROUND TIME: 3- 4 day, fax results when available

PROJECT NUMBER: 40100

PROJECT NAME: Mojave Solar LLC

SAMPLERS: (SIGNATURE)

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Pesticides/Herbicides 8081A / 8151A	OTHER: Asbestos "PLM" 600R/R-93-116
B1-1	3/1/10	0815	AD03012 Ignore ID's on all plastic (Apl. rely on ID on -2	S	B	X							
B1-2		0819		S	B								
B1-3		0829	BRASS tube (Analyze @ "top" of tube) -3	S	B				X		BTXE + Fuel oxygenate		
B2-1		0917	-4	S	B								
B2-2		0918	-5	S	B								
B3-1		0950	-6	S	B								
B3-2		0953	-7	S	B								
B4-1		1023	-8	S	B								
B4-2		1026	-9	S	B								
B5-1	3/1/10	1040	-10	S	B	X							

Total Number of Containers: 10

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1542					3-4-10 13:47 pm

87

CHAIN OF CUSTODY

AD003012 2/2

ALASKA PETROLEUM ENVIRONMENTAL ENGINEERING

P.O. BOX 5365
GARDEN GROVE
CALIFORNIA
92846-0365
(714) 897-2733
FAX (714) 897-0031

P.O. BOX 81904
FAIRBANKS
ALASKA 99705
(907) 479-9555

TURNAROUND TIME:

3- 4 day, fax results when available

PROJECT NUMBER: 40100

PROJECT NAME: Mojave Solar LLC

SAMPLERS: (SIGNATURE)

SAMPLE ID	DATE	TIME	SPECIAL INSTRUCTIONS TO LABORATORY	TYPE: LIQUID/SOLID	TYPE: GLASS/PLASTICS/BRASS/SS	ANALYSIS: FUEL 8015 – M/E / CARBON CHAIN	ANALYSIS: PETROLEUM HC 418.1	ANALYSIS: BTXE 8021B	ANALYSIS: VOLATILE ORGANICS 624/8260B	ANALYSIS: EXTRACTABLE ORGANICS 625/8270	ANALYSIS: CCR METALS TOTAL	OTHER: Pesticides/Herbicides 8081A / 8151A	OTHER: ~~Asbestos TEM 600/R-93-116~~ PCBs
BS-2	3/1/10	1045	AD003012 -11	S	B	X							
AG-1		N/A	composite of 12 samples -12	S	P							X	
slag			-13	S	P						X		
BLDG			-14	S	P	X					X		X
				S									
				S									
				S									
				S									
				S									
	3/1/10			S									

Total Number of Containers: 2

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
	3/4/10 1347					3-4-10 13:47 pm

SUBCONTRACTOR CHAIN OF CUSTODY

ALPHA SCIENTIFIC CORPORATION

CHAIN OF CUSTODY RECORD

Lab Job Number AS10C010

Client: Alpha Scientific Corp

Address: 16760 Gridley Rd. Cerritos, CA 90703

Report Attention: Roger Wang | Phone 562 809-8880 | Fax 562 809-8801 | Sampled by:

Project Name/No.: AD003012 | Project Site: Mojave Solar LLC

Client Sample ID	Lab Sample ID	Sample Collect Date	Sample Collect Time	Matrix Type	Sample Preserv	No.,type* & size of container	8015M (Gasoline)	8015M(Diesel)	8260B(BTEX, Oxygenates)	8260B (VOCs)	8270C(SVOCs)	CAM Metals	~~$~~ RW	8151A
AG-1	AS10C010-1	3/1/10		Soil	ICE	1								X

Analyses Requested

T.A.T. Requested: ☐ Rush 8 12 24 hrs ☒ 2-3 days ☐ Normal

Sample Condition: ☒ Chilled ☐ Intact ☐ Sample seals

Remark:

Relinquished by	Company	Date	Time	Received by	Company	Date	Time
[signature]	ASC	3/6/10	3:20PM	[signature]	MBC	3/8/10	3:00 PM
Relinquished by	Company	Date	Time	Received by	Company	Date	Time

Container types: M=Metal Tube, A=Air Bag, P=Plastic bottle, G=Glass bottle, V=VOA vial

Alpha Scientific Corporation
16760 Gridley Road
Cerritos, CA 90703

Email: ascorp@verizon.net
Tel: (562) 809-8880
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Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client's expense.
Distribution: WHITE with report, PINK to courier

PESTICIDE AND HERBICIDE USE EVALUATION

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1.0 Introduction

1.1 *Hypothetical Basis for Evaluation*

The following evaluation is based on a hypothetical analysis of pesticide use on an agricultural use property. As part of this analysis, the proposed Mojave Solar LLC project (hereafter referred to as the "Site") is considered as being historically used for an orchard (rationale of this designation further explained below). From scores of site characterizations that *Alaska Petroleum Environmental Engineering, Inc.* has conducted in southern California in Kern, Los Angeles, Orange, Riverside, Ventura, and San Bernardino counties, organochlorine pesticides (OCPs") have only been detected above residential regulatory action limits in:

- Orchards and former orchards, and
- Storage areas and related spills (i.e., one residential site where commercial flower farming was conducted and pesticides were mixed, stored and over applied; and the Los Angeles County Agricultural Commissions field office where pesticides and herbicides for the entire county were stored and mixed (i.e., spills).

Thousands of acres have been investigated upon which grains, vegetables/fruits (e.g., strawberries, etc.), and animal feedstock has been grown. Pesticides/herbicides have not been detected above regulatory action limits.

1.2 *Worst Case Scenario*

OCPs were first introduced into California agriculture in 1944 and reached their peak usage in the 1960s. In 1974, the use of DDT, an (OCP), was banned in California for agricultural purposes, and the elimination of remaining OCPs quickly followed.

For this evaluation, DDT is being considered as it was primarily used in fruit orchards [information obtained from the Los Angeles County Agricultural Commission, Department of Pesticides]. DDT has one of the longest pesticide/ herbicide "half-lives" ("half-life" is defined in Section 2.0). Therefore, in this worst case scenario analysis, the following assumptions were used:

- DDT was used following the manufacturer's application rates, and
- it is calculated that the residual DDT concentration would be currently below all regulatory action limits or human health based risk goals,

then any other pesticide/herbicide that may have been applied, which are all known to have shorter "half-lives", would also pose no environmental or health effects as the residual concentration(s) would be even less than DDT.

1.3 *Subject Property and Potential Pesticide Use*

The Site is approximately 1,800 acres in size. It had been used for agricultural purposes (i.e., grains, alfalfa, etc.) and it is known that pesticide(s) were used in the agricultural operations.

1.4 *Purpose and Objectives*

The intent of this review is to determine if sampling for pesticides was warranted. Fruit orchards are being used in this analysis as they typically had the highest pesticide application rates.

2.0 Nature of Pesticides

"Half-life" is a measure of the persistence of a pesticide in soil; it is the amount of time required for one-half of the material to degrade. Based upon degradation rates, pesticides can be categorized as:

- non-persistent: "half-life" less than 30 days,
- moderately persistent: "half-life" 30 to 100 days, or
- persistent: "half-life" greater than 100 days.

A "typical" soil "half-life" value is an approximation and may vary greatly because persistence is sensitive to variations in a site's soil, climate, etc. The sorption coefficient ("Koc") describes the tendency of a pesticide to bind to soil particles and is derived from laboratory data. Sorption retards movement, and may also increase persistence because the pesticide is protected from degradation. The higher the Koc, the greater the sorption potential. Many soil and pesticide factors may influence the actual sorption of a pesticide to soil.

The Groundwater Ubiquity Score ("GUS") is an empirically derived value that relates pesticide persistence (half-life) and sorption in soil (Koc). The GUS may be used to rank pesticides for their potential to vertically migrate to groundwater:

$$GUS = \log10 (\text{"half-life"}) \times [4 - \log10 (Koc)]$$

The pesticide movement rating is derived from the GUS. Movement ratings range from "extremely low" to "very high". Pesticides with a GUS less than 0.1 are considered to have an extremely low potential to migrate towards groundwater. Values of:

- 1.0 - 2.0 are "low"
- 2.0 - 3.0 are "moderate",
- 3.0 - 4.0 are "high", and
- values greater than 4.0 have a "very high" potential to migrate towards groundwater.

Solubility describes the amount of pesticide that will dissolve in a known volume of water. The higher the solubility, the more soluble the pesticide. Highly soluble pesticides are more likely to be removed from the soil by runoff (e.g., from stormwater, excessive irrigation, etc.) or by moving below the plant's root zone with excess water.

3.0 Historical Use of Pesticides in Orchards

For this discussion, chemical compounds included under the general classification of "pesticides" are herbicides, insecticides, rodenticides, fungicides, and "others". The likelihood of finding elevated concentrations of pesticides would be greater on properties where the chemical usage was higher due to the type of crops that were planted such as fruit orchards as compared to grains (e.g., alfalfa, etc.).

A copy of that portion of the "Interim Guidance for Sampling Agricultural Soils", California Environmental Protection Agency - Department of Toxic Substances Control ("DTSC"), June 28, 2000 pertaining to the analyses and "half-life" of commonly used pesticides/herbicides (i.e., degradation rates) is included as ***Attachment 1***. According to the Los Angeles Agricultural Commission, Department of Pesticides (Mr. Jahan Motakef), the most commonly used pesticides in fruit orchards before the 1970s were DDT and Carbaryl (trade name of "Sevin").

With respect to the aforementioned criterion pertaining to the nature of pesticides, the following applies to these chemicals [Pesticide Properties Database, Kerle & Jenkins, 07/24/94].

Pesticide	Movement Rating	Soil Half-Life (days)	Water Solubility (mg/l)	Sorption Coefficient (soil Koc)
DDT	Extremely Low	2,000	0.0055	2,000,000
Carbaryl ("Sevin")	Low	10	120	300

DDT is commonly used as a benchmark in determining if residual pesticides may be a concern on a property because it has one of the longest "half-lifes". Therefore, if the concentration of DDT were low all other pesticides would have degraded earlier since they have a shorter half-life.

4.0 Regulatory Basis for Sampling Agricultural Use Properties

Pesticide sampling strategies utilized in California are conservative since they were developed for new or expansion of existing, school sites. These strategies were expanded to ensure that inappropriate fill material was not imported onto other "sensitive" land use properties such as day care centers, homes, hospitals, etc.

Included in the pesticide guidelines are sampling strategies pertaining to the presence of regulated "heavy" metals which were used in both pesticides and fertilizers formulations. In addition to pesticides/herbicides and regulated "heavy" metals, other constituents of concern ("COC") are addressed in these guidelines which may be present at concentrations above regulatory action levels or applicable health-based risk goals in imported soils. COCs also typically include asbestos and hydrocarbons.

Specifically for agricultural use properties the DTSC guidance document,

(1) "does not apply to disturbed land, such as, land that has been graded in preparation for construction, areas where imported soil has been brought in, or any other activity that would redistribute the soil, other than normal disking and plowing";

(2) "is not applicable to areas where pesticides were mixed, stored, disposed, or areas where pesticides may have accumulated, such as ponds and drainage ditches";

(3) states that "animal facilities such as cattle and poultry barns, settling ponds, and manure piles" are excluded; and

(4) indicates that agricultural usage on properties "ending prior to 1950" do not need to be evaluated for pesticides; however, "arsenical pesticides and herbicides predates 1950" and should be evaluated.

The USEPA RSLs have been established for various chemical and inorganic compounds (e.g., regulated "heavy" metals), which pertain to residential and industrial properties. A RSL is defined as that constituent concentration that is acceptable to remain in-place.

4.1 *Sampling Protocols in Agricultural Fields for School Sites*

Please note that this sampling strategy presents a "worse-case" scenario, as it pertains to school sites; the Site will be a concentrating solar plant (electrical generation). Therefore, the human exposure pathways (e.g., ingestion, inhalation and dermal contact) are short-term and are only applicable for an on-Site construction worker.Samples should be collected at each location at the surface (zero to six inches) and from two to three feet below ground surface and analyzed for pesticides. For a property over 50 acres in size, the DTSC should be contacted in order to determine the suggested minimum number of sample locations.

In addition, a minimum of four on-Site "background" soil samples should be collected for regulated "heavy" metal analysis. DTSC limited the regulated "heavy" metal analysis to the 17 California Assessment Manual ("CAM") metals. A list of the 17 CAM metals and the applicable USEPA RSLs for residential use properties is presented in ***Attachment 4***. Included in this attachment is also the RSL for DDT.

4.2 *Sampling Protocols for Soil Import to "Sensitive" Sites*

No information was made available if any soil will be imported to the Site. If this may happen, there are regulatory guidelines for soil sampling to ensure that the import source is "clean". The DTSC developed the following sampling strategies.

Recommended Fill Material Sampling Schedule

Sample Frequency	
Area of Individual Borrow Area (acres)	Samples Requirements
2 or less	Minimum of 4 samples
2 to 4	Minimum of 1 sample every ½ acre
4 to 10	Minimum of 8 samples
Greater than 10	Minimum of 8 locations with 4 sub-samples per

	location
Sample Frequency (cubic yards ["cy"])	
Volume of Borrow Area Stockpile (cy)	Samples per Volume
Less than 1,000	1 sample per 250 cy
1,001 to 5,000	4 samples for first 1,000 cy, plus 1 sample for each additional 500 cy
5,000+	12 samples for the first 5,000 cy, plus 1 sample per each additional 1,000 cy

5.0 Technical Evaluation

- The DTSC sampling guidelines pertaining to agricultural properties (i.e., for pesticides and regulated "heavy" metals) do not apply because the Site will:

  (1) not be developed into a school facility, and

  (2) will be graded for construction purposes.

- The DTSC sampling guidelines pertaining to soil imported to "sensitive" sites does apply, only if the grading plans call:

  (1) for import, and the import comes from an past or present agricultural use property, or potentially if,

  (2) there is export of the Site soil to another "sensitive" use site.

- ***If*** DDT and/or Carbayl ("Sevin") were used at the Site, DDT would be the predominant COC. DDT has a high sorption coefficient, which retards movement within the soil matrix, thereby making it more persistent in nature, and its half-life is approximately 5.5 years (2,000 days). Therefore, given the following Site information regarding DDT use:

  - in the interim time period from 1974 (when DDT was banned for use on agricultural properties) and 2010, DDT would have degraded by 6.6 half-lives;

  - the USEPA residential RSL for DDT is 1.7 parts per million ("ppm");

  - the typical application rate for DDT over two treated acres of fruit groves would be anywhere between a few ounces to a few pounds; without knowing the application rates and duration of treatment the potential residual amount of DDT in the soil cannot be determined.

The following calculation, using "reverse" mathematics, provides useful information as to a "typical" DDT application rate. For example, given:

1. The residential use RSL is 1.7 ppm.
2. DDT has a half-life of about 5.5 years (2,000 days).

3. Assuming the Site currently contains DDT at the residential RSL, when it was applied 36 years ago (i.e., 6.55 half-lives), the concentration would be about 125 ppm.

PRG	1st ½ life	2nd	3rd	4th	5th	6th	7th
1.7	x2	x2	x2	x2	x2	x2	x2
=	3.4	6.8	13.6	27.2	54.5	81.6	163.2

The question is how many grams or pounds were applied which is equivalent to 125 ppm? Using the following assumptions or given:

(1) DDT is only present in the upper one inch of soil on one acre,

(2) soil density is 1.35 tons per cubic yard, and

(3) unit conversion factors ("cf"):

(1 acre)(43,560 square feet per acre[cf])(1 inch DDT soil penetration/12 inches per foot[cf])(1 cubic yard per 27 cubic feet[cf])(1.35 tons per cubic yard)(2,000 pounds per ton [cf]) =

363,000 pounds of soil on 1 acre to a depth of 1 inch.

By definition, ppm is the equivalent to any unit of measurement per one million of that measurement. For example, using pounds as a basis:

1 ppm = 1 pound of something per 1,000,000 pounds of something.

In the DDT example above, at an initial concentration of 125 ppm, the pounds of DDT, which would have been applied, is as follows.

125 pounds of DDT per million pounds of soil, and 363,000 pounds of soil per 1 acre to a depth of 1 inch or:

(125/1,000,000)(363,000) = 40.4 pounds of DDT applied

This is about 40 times higher than what is considered the maximum DDT application rate (i.e., a few pounds per two acres). Therefore, the likelihood of finding DDT above the residential RSL is very low after 6.5 half-lives. **NOTE**: the commercial property use (i.e., the Site) RSL is 7.0 ppm. Therefore, higher concentrations of OCPs would be "acceptable".

6.0 Conclusion

No other pertinent data can be determined due to the datagaps cited above; specifically, regarding:

- types of pesticides potentially used,
- pesticide application rates, and
- the duration of the treatment (i.e., how many years).

In general, the aforementioned data should clarify the possibility of soil toxicity based upon the Site's historical agricultural usage. Based upon the aforementioned pesticide analysis and State guidelines, it appears that the use of pesticides should not be an issue with respect to any proposed development.