

**SUMMARY OF
SOIL CHARACTERIZATION SAMPLING
at
BERRIMAN RANCH PROPERTY
APNs 22-140-03 and 22-160-03
Nevada County, California**

**Prepared for:
Asset Property Group
7969 Engineer Road, Suite 108
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**Prepared by:
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**Project No. 1746-05
August 9, 2007**

HK **HOLDREGE & KULL**
CONSULTING ENGINEERS • GEOLOGISTS

Project No. 1746-05

August 9, 2007

Asset Property Group
7969 Engineer Road, Suite 108
San Diego, California 92111

Attention: Mr. Fred Oliver

Reference: *Berriman Ranch Property*
APNs 22-140-03 and 22-160-03
11460 Taylorville Road
Nevada County, California

Subject: *Summary of Soil Characterization Sampling*

Dear Mr. Oliver:


This letter presents the results of Holdrege & Kull's (H&K's) soil characterization sampling at the Berriman Ranch property located at 11460 Taylorville Road in Nevada County, California. The assessor's parcel numbers (APNs) for the property are 22-140-03 and 22-160-03. We performed our investigation in general accordance with the scope of services presented in our proposal dated May 3, 2007.

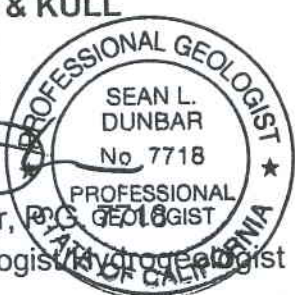
Please contact us if you have any questions regarding our observations, conclusions or preliminary recommendations presented in this report.

Sincerely,

HOLDREGE & KULL

Prepared by:


Sean L. Dunbar, P.G.
Project Geologist/Hydrogeologist



Reviewed by:


Jason W. Muir, P.E.
Principal



copies: 2 to Asset Property Group/ Attn: Fred Oliver
1 to Kent Holdings and Affiliates/ Attn: Sandy Kahn
1 to NCDEH/ Attn: Wesley Nicks

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1 INTRODUCTION

1.1 SITE DESCRIPTION

The approximately 121-acre Berriman Ranch property is located on a southwest-facing slope immediately west of Taylorville Road and Highway 49, approximately 650 feet south of the intersection of Highway 49 and McKnight Way. The site is accessed via Taylorville Road southeast of the McKnight Way and State Highway 49 interchange. A site vicinity map and site map are presented as Figures 1 and 2, respectively.

A single-family residence, barn and several outbuildings are located in the central portion of the property. The remainder of the property was undeveloped at the time of our investigation.

Single-family residential and agricultural properties are located east of Taylorville Road and west of Highway 49, near the eastern site boundary. Residential and commercial properties (K-Mart shopping center) border the site to the north. Residential agricultural properties border the property to the west, and residential properties are located to the south of the site.

As depicted on Figure 1, Little Wolf Creek is located approximately 1,500 feet northeast of the property, on the northeast side of Highway 49. Little Wolf Creek flows west into Wolf Creek approximately 2,100 feet north of the property. Wolf Creek flows south and east from the confluence and forms the southwestern boundary of the property.

1.2 SCOPE OF SERVICES

During a soil evaluation for wastewater disposal, the Nevada County Department of Environmental Health (NCDEH) identified soil conditions in the central portion of the property which are indicative of mine waste. Based on recommendations from NCDEH, a representative of the property owners obtained two surface soil samples in April 2007, which were analyzed for Title 22 metals. Arsenic and mercury concentrations detected in the soil samples were higher than arsenic and mercury concentrations typically encountered in background soil in the area.

Pursuant to additional discussion with NCDEH, H&K performed an environmental site assessment (ESA), the results of which are presented in *Phase I Environ-*

mental Site Assessment of Berriman Ranch Property (August 7, 2007). The ESA identified:

1. Apparent mill tailings in the central portion of the property, which were reportedly transported to the property and deposited on the ground surface via irrigation water from Little Wolf Creek.
2. The potential for past pesticide application associated with a fruit orchard formerly located on the property.
3. Small-scale hard rock and placer mining excavations and stockpiles of apparent excavation spoils, in three locations on the property.

One of the small-scale mining features identified in the ESA was previously investigated by H&K in November 2002. Findings of the investigation were summarized in H&K's *Summary of Percolation Testing, Soil Sampling and Laboratory Test Results* (December 19, 2002).

1.3 PURPOSE AND SCOPE

The purpose of H&K's soil characterization sampling was to evaluate the following soil conditions with respect to potential environmental conditions identified in H&K's ESA report:

1. Metals concentrations in apparent mill tailings transported to the site by irrigation water.
2. Potential residual organochlorine pesticides (OCPs) in shallow soil within the former orchard area.
3. Metals concentrations in small-scale mining excavation spoils identified in three general areas:
 - a. Hard rock mining spoils located in the southern portion of the property,
 - b. Placer mining spoils located in the southern portion of the property, and
 - c. Placer mining spoils located in the western portion of the property.
4. Ambient metals concentrations in shallow "background" soil on the property, which is apparently not impacted by past site use.

The results of H&K's soil characterization sampling are not intended to guarantee the condition of the site. Rather, our findings are to be used to facilitate a discussion of the identified environmental conditions with NCDEH and to determine whether additional characterization and/or mitigation would be necessary with respect to the proposed development of the property.

2 FIELD INVESTIGATION

H&K performed site reconnaissance on foot and by four-wheel drive vehicle on May 31, 2007. The ground surface was generally visible over the majority of the site. Blackberry thickets obscured the ground surface in portions of the southern half of the property, especially in low-lying areas near Wolf Creek. We were unable to observe surface soil conditions in the densely vegetated areas.

On June 8 and July 19, 2007, H&K excavated 51 exploratory trenches at the site and recorded the subsurface soil conditions encountered in the trenches. Figure 2 depicts the approximate locations of the exploratory trenches. The results of our surface reconnaissance and subsurface investigation are summarized below.

2.1 WHITE SEDIMENT AREA

A layer of sediment, described as white silt and clay was visible at the ground surface in multiple locations within the central-eastern portion of the site, generally surrounding the barn and residence area. Figure 2 depicts the approximate extent of the sediment observed during H&K's investigation. According to William Berriman (the former property owner), the sediment originated as a result of past irrigation of the orchard and pasture at the ranch with water from Little Wolf Creek. Mr. Berriman's recollection was that the water in Little Wolf Creek commonly looked milky white and carried sediment and/or mill tailings from the workings of the Empire Mine.

H&K excavated exploratory trenches in areas that appeared likely to have been irrigated in the past. H&K selected trench locations based upon observation of topography and drainage, as well as surface soil and vegetation patterns evident in historical aerial photographs of the site.

Based on our observation of soil conditions revealed in the exploratory trenches, the white sediment layer varies in thickness from approximately 0.5 feet to 3.5 feet, and covers an approximate surface area of 29 acres. Assuming that the average thickness of the layer is eight inches, roughly 30,000 cubic yards of white sediment

may be present at the site. Sediment depths may be greater in low-lying areas and within drainage courses.

An irrigation riser was observed in the southeastern portion of the sediment area. Several former irrigation ditches were evident in the central portion of the site to the south and southwest of the barn and the residence.

2.2 FORMER ORCHARD AREA

Remnant fruit trees were observed at several locations within the central-eastern portion of the property. Surface soil samples were obtained from these areas for OCP analysis, as discussed in the following section.

2.3 SOUTHERN HARD ROCK MINING SPOILS

At the southern end of the property, within the boundary of the former Horseshoe Mine claim, H&K observed hard rock mining excavations and small stockpiles of apparent mining exploration spoils. We observed two vertical mine shafts, which were open to depths up to and possibly greater than 40 feet. Small stockpiles (approximately 10 cubic yards each) of apparent hard rock mining excavation spoils were observed next to the open excavations. Figure 2 depicts these locations as SP1 and SP2.

2.4 SOUTHERN PLACER MINING SPOILS

H&K observed apparent placer mining excavation within 175 feet of Wolf Creek, near the western property boundary and within the boundary of the former Horseshoe Mine claim. The locations of the features (SP3-1, BR-PM1, BR-PM2 and BR-PM3) are depicted on Figure 2. The identified stockpiles of apparent placer excavation spoils totaled less than 40 cubic yards. Much of the ground surface in the vicinity of the placer mining areas was obscured by blackberry thickets.

2.5 WESTERN PLACER MINING SPOILS

Within an east-west trending drainage in the western portion of the property, we observed an area containing several placer mining excavations and small stockpiles of apparent excavation spoils. The volume of excavation spoils was estimated to be less than 200 cubic yards. Figure 2 shows the location of this area.

3 SOIL SAMPLING AND ANALYSIS

H&K obtained 43 soil samples from the exploratory trenches for laboratory analysis. Soil samples were collected in 4-ounce glass jars, which were immediately sealed and labeled upon collection. The samples were transported to Excelchem Environmental Labs of Rocklin, California, using chain of custody documentation. Excelchem is certified by the California Environmental Laboratory Accreditation Program (ELAP).

Tables 1 through 4 present the laboratory results. Laboratory reports and chain of custody documentation are attached. Sampling and analysis are summarized below.

3.1 AMBIENT SOIL

Ten "background" soil samples were obtained from the upper six inches of apparent native soil in areas apparently not impacted by past site use. The samples were analyzed for total arsenic and lead by U.S. Environmental Protection Agency (EPA) Method 6010B and mercury by EPA Method 7471A. Arsenic was not detected above a laboratory reporting limit of 1 milligram per kilogram (mg/kg). Lead concentrations ranged from 7 to 36 mg/kg. Mercury concentrations ranged from 0.012 to 0.3 mg/kg. Table 1 summarizes the laboratory results.

3.2 WHITE SEDIMENT AREA

Twenty-three soil samples of white sediment and associated native soil were analyzed for total arsenic, lead and mercury. Arsenic concentrations ranged from 47.9 to 488 mg/kg in the white sediment. Lead ranged from 47.5 to 702 mg/kg, and mercury ranged from 4.63 to 8.06 mg/kg. Table 2 summarizes the laboratory results.

These concentrations are above the corresponding range of site background concentrations, as discussed above, as well as the typical range of background concentrations for the site vicinity. Background soil arsenic concentrations in the Grass Valley area typically range up to 20 mg/kg, and may be higher in naturally mineralized areas. Some of the arsenic and lead concentrations detected in the white sediment exceed the corresponding California Human Health Screening Levels (CHHSLs) for residential soil (0.07 mg/kg for arsenic, 150 mg/kg for lead and 18 mg/kg for mercury).

In addition to the samples obtained by H&K, two samples of the white sediment were obtained by others and analyzed for seventeen Title 22 metals. Arsenic, lead and mercury were detected above site background concentrations in the samples. Table 3 presents the sample results.

3.3 FORMER ORCHARD AREA

Four soil samples (T-26BR-0.5, T-27BR-0.5, T-28BR-0.5 and T-35BR-0.5) obtained within the upper six inches of soil in former orchard areas were analyzed for OCPs by EPA Method 8081A. OCPs were not detected in the four soil samples above the corresponding laboratory reporting limits.

3.4 SOUTHERN HARD ROCK MINING SPOILS

Four soil samples (SP1-1, SP1-2, SP2-1 and SP2-2) were obtained from depths ranging from 0.5 to 4 feet below the surface of stockpiles SP1 and SP2 and analyzed for total arsenic, lead and mercury. Arsenic concentrations ranged from less than 1.0 to 11.8 mg/kg. Lead concentrations ranged from less than 1.0 to 2.1 mg/kg. Mercury concentrations ranged from 0.01 to 0.03 mg/kg. Table 4 presents the laboratory results.

The arsenic concentrations exceed site background concentrations (which are below the laboratory reporting limit) but are within the range of regional background concentrations (up to 20 mg/kg). Lead and mercury were detected within the range of site background concentrations.

3.5 SOUTHERN PLACER MINING SPOILS

Four soil samples (SP3-1, BR-PM1, BR-PM2 and BR-PM3) were obtained from the upper six inches of the placer mining spoils located in the southern portion of the site. The four samples were analyzed for total arsenic, lead and mercury. Arsenic concentrations ranged from less than 1.0 to 9.9 mg/kg in three of the samples; arsenic was detected in the fourth sample (BR-PM3) at a concentration of 96.7 mg/kg. Lead concentrations ranged from 9.7 to 12.3 mg/kg in three of the samples; lead was detected in sample BR-PM3 at 104 mg/kg. Mercury concentrations ranged from 0.092 to 0.162 mg/kg. Table 4 presents the laboratory results.

Arsenic and lead concentrations detected in sample BR-PM3 exceed site and regional background concentrations. Other arsenic concentrations are within the regional background range, and lead is within the site background range. Mercury concentrations are above the range of site background concentrations (up to 0.03 mg/kg) but below the CHHSL (18 mg/kg) for mercury in residential soil.

3.6 WESTERN PLACER MINING SPOILS

Two soil samples (BR-PM4 and BR-PM5) were obtained from the upper six inches of the surface of the placer mining spoils located in the western portion of the site and were analyzed for total arsenic, lead and mercury. Arsenic was not detected above a reporting limit of 1.0 mg/kg. Lead concentrations were 6.8 and 10.5 mg/kg. Mercury concentrations were 0.213 and 2.04 mg/kg. Table 4 presents the laboratory results.

Arsenic and lead concentrations are within the site background range. Mercury concentrations are above the range of site background concentrations (up to 0.03 mg/kg) but below the CHHSL (18 mg/kg) for mercury in residential soil.

4 CONCLUSIONS

The following conclusions are based on H&K's historical research, surface reconnaissance, observation of subsurface conditions encountered in the exploratory trenches, and review of laboratory test results.

1. Arsenic, lead and mercury concentrations detected in soil samples obtained from the layer of white sediment exceed site and regional background concentrations. The arsenic concentrations, as well as some of the lead concentrations, exceed the CHHSLs for arsenic and lead in residential soil and therefore may present a health risk in the case of soil ingestion, dermal contact, or inhalation of soil dust. The white sediment was observed in approximately 29 acres of the central-eastern portion of the site, as depicted on Figure 2. The sediment may have originated from the irrigation of former orchard and pasture land using water from Little Wolf Creek, which is known to have transported mill tailings from up slope mine workings.
2. OCPs were not detected in the four soil samples obtained from the former orchard area. The laboratory results indicate that the potential human health hazard associated with such residual pesticide compounds in soil is not likely to be significant.
3. Arsenic, lead and mercury concentrations detected in the southern hard rock mining spoils are within the range of regional background concentrations and therefore are not likely to present a significant health hazard. However, the open excavations present potential physical hazards and confined space conditions, and are not suitable in their present state to support structural

improvements. Other mining excavations may be present on the property, and mining excavations may extend beneath the site from adjacent property.

4. Arsenic and lead concentrations detected in one sample (BR-PM3) obtained from the southern placer mining spoils exceed regional background concentrations. Soil represented by sample BR-PM3 may present a health hazard, and contact with the soil should be avoided. Other arsenic and lead concentrations detected in the area are within the regional background range, and mercury concentrations are below the CHHSL for mercury in residential soil.
5. Arsenic and lead concentrations detected in the western placer mining spoils are within the range of site background concentrations, and the detected mercury concentrations are below the CHHSL for mercury in residential soil. Therefore, soil in the western placer mining spoils is not likely to present a significant health hazard.

5 RECOMMENDATIONS

H&K makes the following recommendations based on the findings of our investigation.

1. The potential for human health risk associated with the white sediment identified on the property should be considered as part of the proposed residential development. The proposed development may be modified to avoid the area of sediment. The sediment should be removed from areas in which residential development is planned. Land use controls (such as deed restriction) as well as engineering controls (such as excavation, relocation and burial and/or fencing) should be considered as potential mitigation measures. Development of mitigation measures should include an assessment of potential water quality impact. The amount of sediment identified on the property will likely preclude its complete removal from the site. Potential mitigation measures should be discussed with the local development agencies.
2. The mining excavations identified at locations SP1 and SP2 in the southern portion of the site present physical hazards and may not be suitable for support of structural improvements. The excavations should be closed to address the possibility of entrapment, collapse, hazardous confined space

conditions and other physical hazards. Temporary measures are appropriate to reduce the existing physical hazards. Final physical closure of the excavations should be performed in accordance with recommendations from a qualified geotechnical engineer and with the approval of the County of Nevada.

3. Soil represented by sample BR-PM3 obtained from the southern placer mining spoils should be further characterized to determine whether the sample result is anomalous. Mitigation measures for soil having elevated metals concentrations may be similar to those discussed above for the white sediment area, although the quantity of potentially impacted placer mining spoils is far less.

6 LIMITATIONS

The following limitations apply to the findings, conclusions and recommendations presented in this report:

1. We have performed this work in accordance with present, regional, generally accepted standards of care. This letter does not represent a legal opinion. No warranty, expressed or implied, including any implied warranty of merchantability or fitness for the purpose is made or intended in connection with our work.
2. The purpose of our study was not to guarantee or certify a clean site, but to characterize surface soil and stockpiles of apparent mine waste located at the site. We have used our judgment and experience to arrive at our conclusions. Therefore, our conclusions are not to be considered scientific certainties. The recommendations provided herein are contingent upon our review of future sampling results or any other pertinent information that becomes available.
3. These services were performed consistent with our agreement with our client. We are not responsible for the impacts of any changes in environmental standards, practices or regulations subsequent to performance of our services. We do not warrant the accuracy of information supplied by others, or the use of segregated portions of this letter. This letter is solely for the use of our client. Any reliance on this letter by a third party is at the risk of that party.

4. The recommendations and conclusions in this letter are preliminary in nature based on existing site conditions; our interpretation of site history and site usage information; and the results of the limited subsurface investigation, sample screening, and laboratory analyses. The concentrations detected in the samples we collected during our site investigation may not be representative of conditions between locations sampled. Other forms of contamination may be present within the site that our limited investigation did not detect.
5. The findings of this letter are valid as of the present date. Changes in the conditions of the property can occur with the passage of time. The changes may be due to natural processes or to the works of man, on the project site or adjacent properties. In addition, changes in applicable or appropriate standards can occur, whether they result from legislation or the broadening of knowledge. Changes in regulations, interpretations, and/or enforcement policies may occur at any time. Such changes may affect the extent of remediation required.
6. Our scope of work did not include determining the presence of radon, lead paint, or asbestos, endangered species, geologic hazards, archeological sites, or ecologically sensitive areas (e.g., vernal pools and wetlands).

FIGURES

Figure 1 Site Vicinity Map

Figure 2 Site Map

NO SCALE

SOURCE: GRASS VALLEY QUADRANGLE MAP (PROVISIONAL EDITION, 1995)



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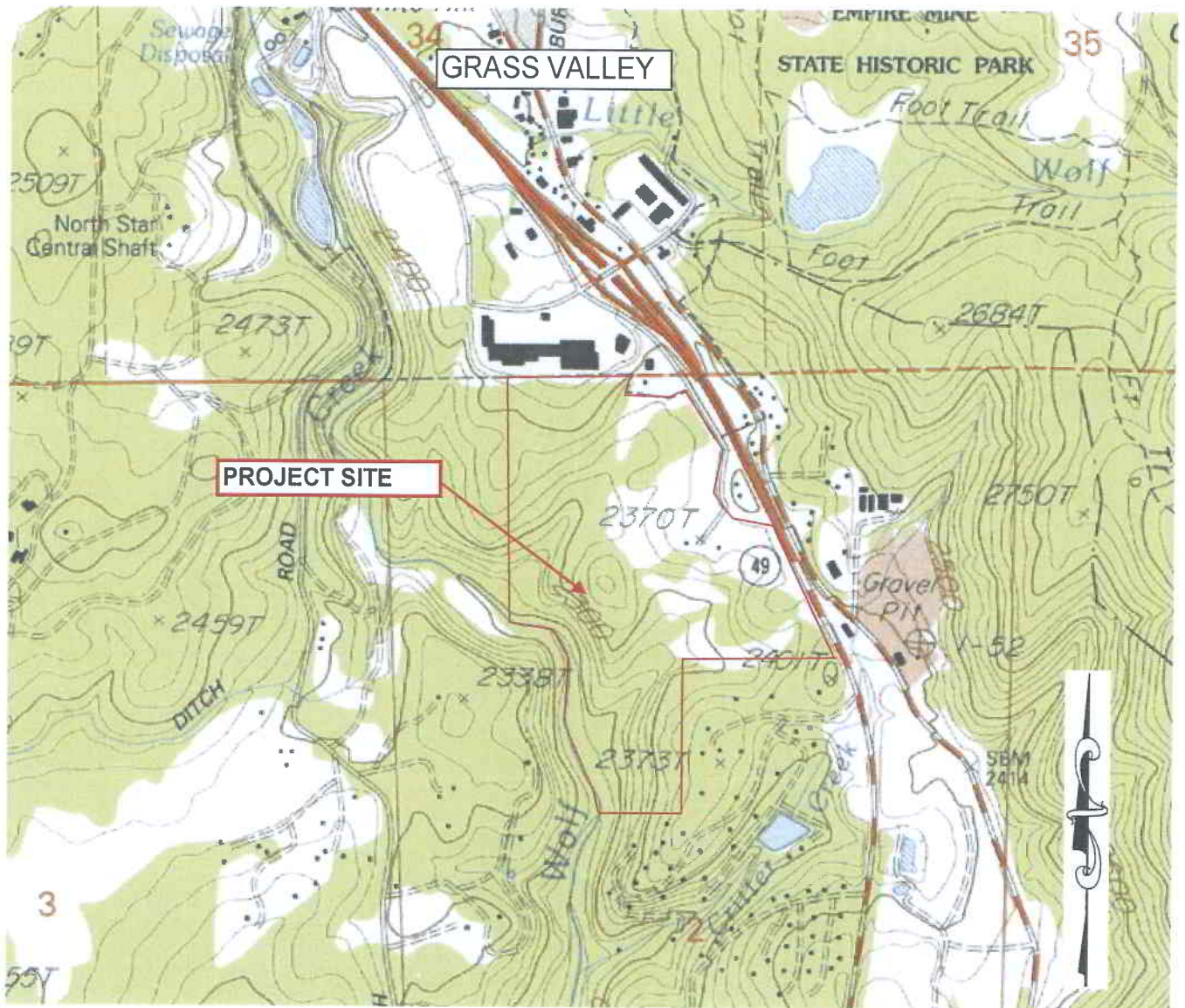
SITE VICINITY MAP

BERRIMAN RANCH
APNs 22-140-03 AND 22-160-03
NEVADA COUNTY, CALIFORNIA

PROJECT NO. 1746-03

AUGUST 2007

FIGURE 1



NO SCALE

SOURCE: GRASS VALLEY QUADRANGLE MAP (PROVISIONAL EDITION, 1995)

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SITE VICINITY MAP

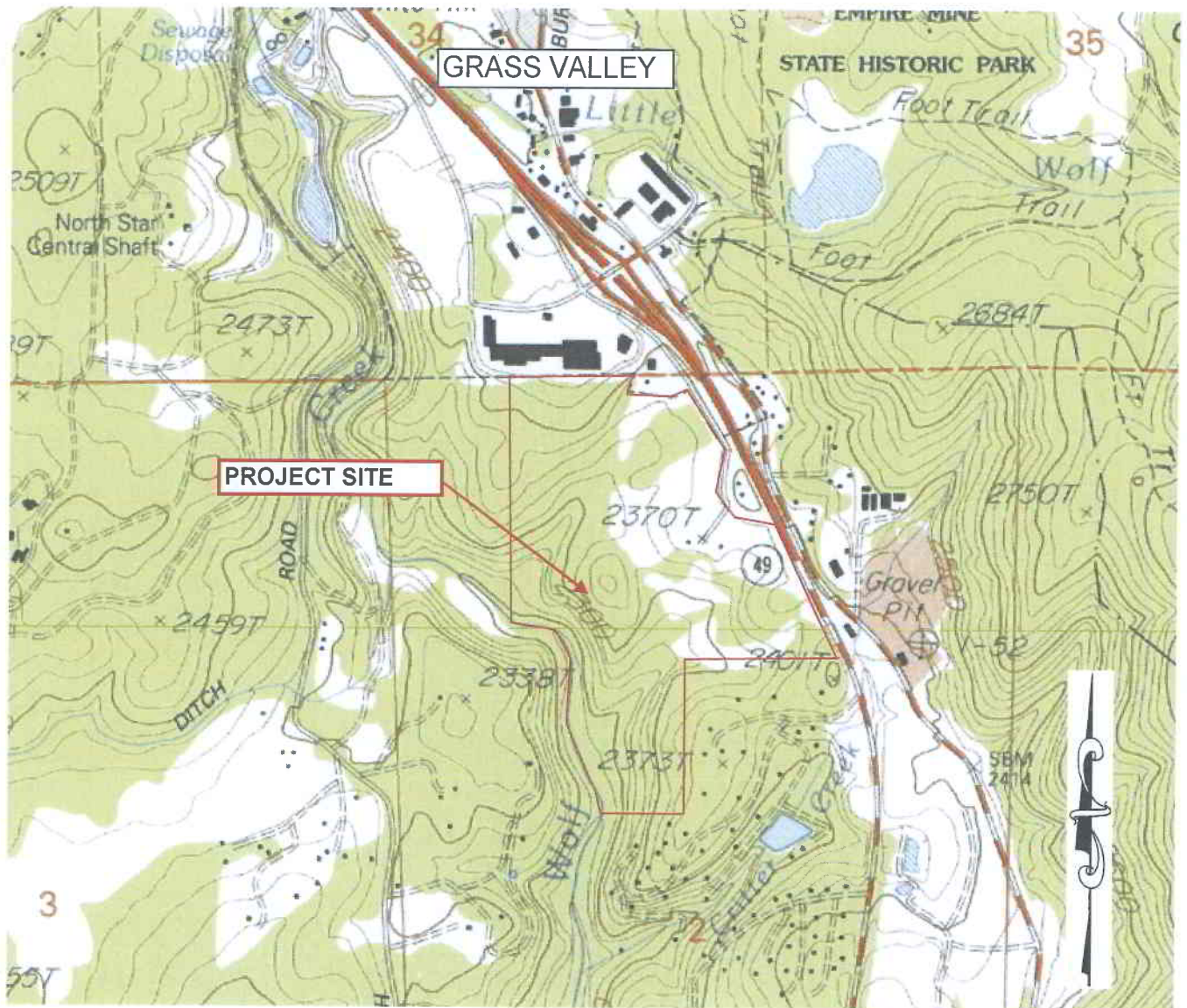
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APNs 22-140-03 AND 22-160-03
NEVADA COUNTY, CALIFORNIA

PROJECT NO. 1746-03

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FIGURE 1



NO SCALE

SOURCE: GRASS VALLEY QUADRANGLE MAP (PROVISIONAL EDITION, 1995)



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SITE VICINITY MAP

BERRIMAN RANCH

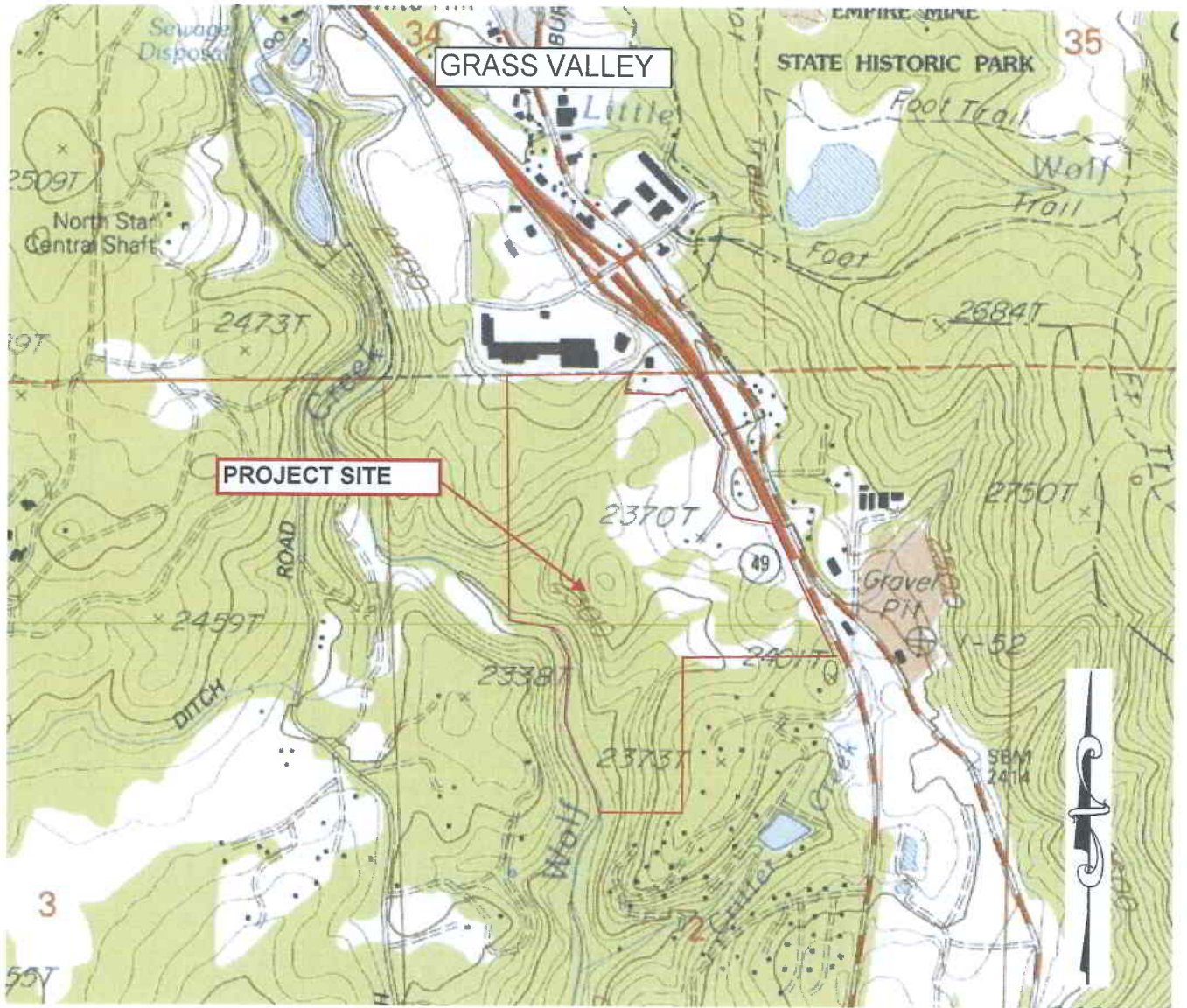
APNs 22-140-03 AND 22-160-03

NEVADA COUNTY, CALIFORNIA

PROJECT NO. 1746-03

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FIGURE 1



NO SCALE

SOURCE: GRASS VALLEY QUADRANGLE MAP (PROVISIONAL EDITION, 1995)

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SITE VICINITY MAP

BERRIMAN RANCH

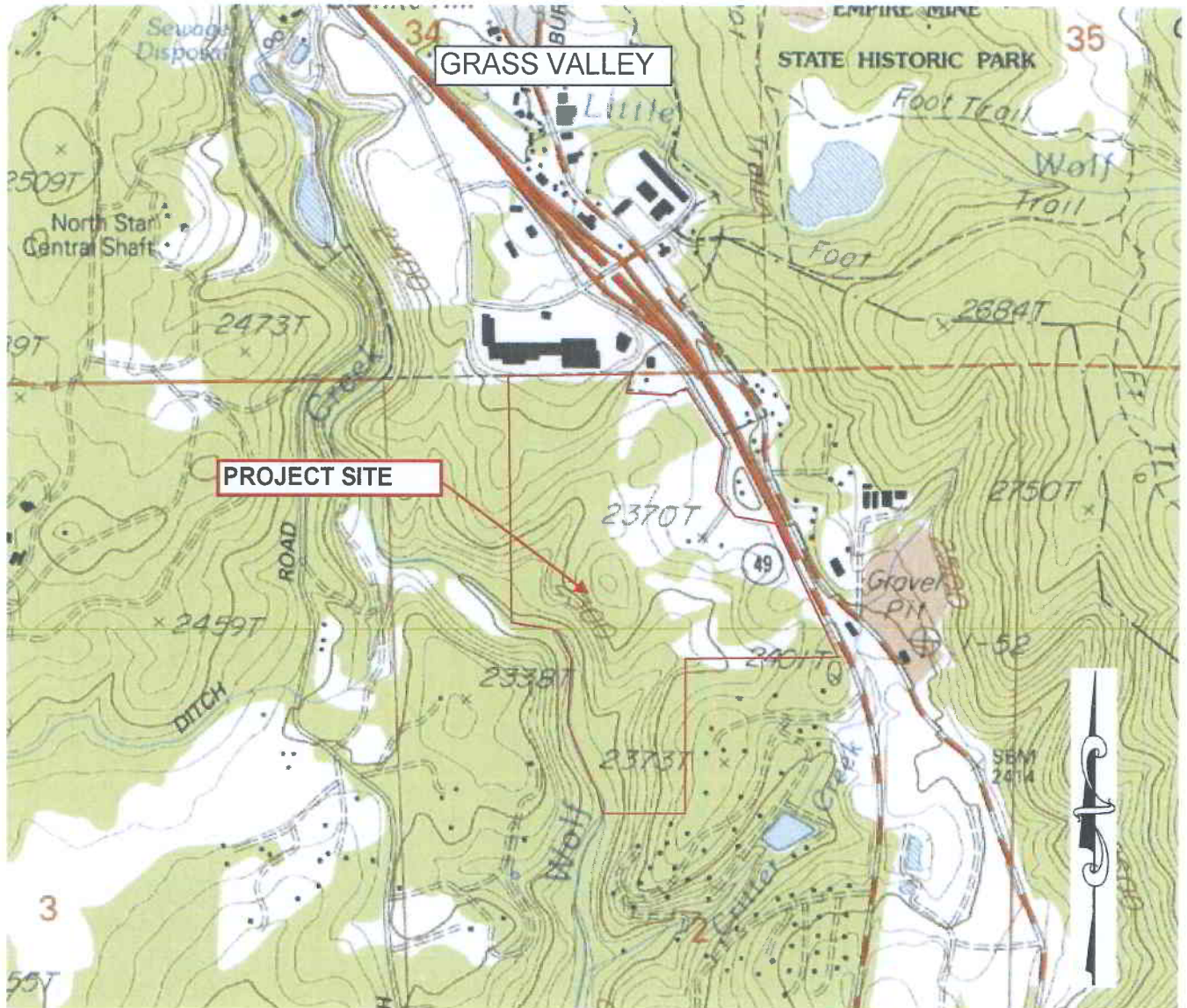
APNs 22-140-03 AND 22-160-03

NEVADA COUNTY, CALIFORNIA

PROJECT NO. 1746-03

AUGUST 2007

FIGURE 1



NO SCALE

SOURCE: GRASS VALLEY QUADRANGLE MAP (PROVISIONAL EDITION, 1995)

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SITE VICINITY MAP

BERRIMAN RANCH

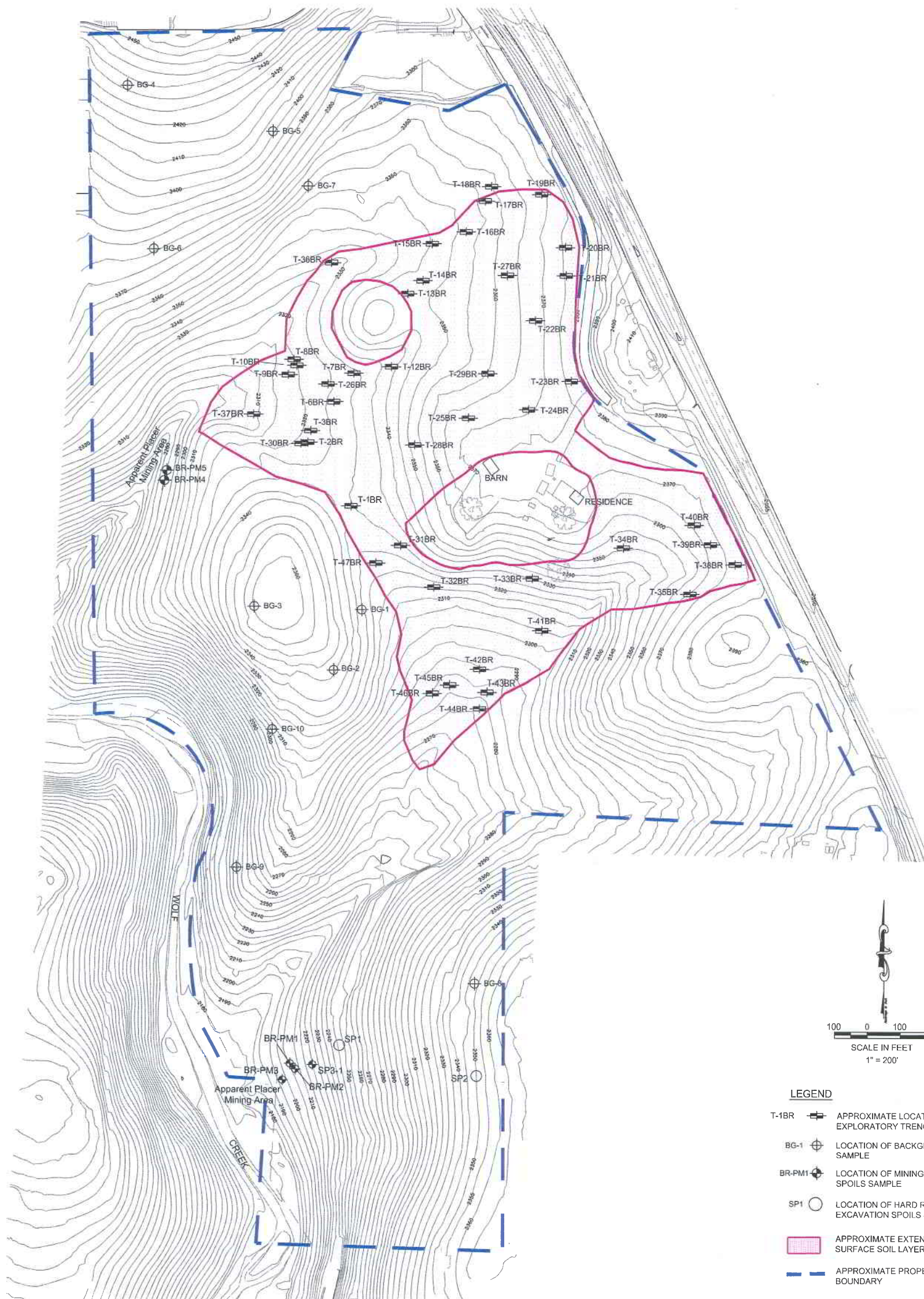
APNs 22-140-03 AND 22-160-03

NEVADA COUNTY, CALIFORNIA

PROJECT NO. 1746-03

AUGUST 2007

FIGURE 1



LEGEND

- T-1BR APPROXIMATE LOCATION OF EXPLORATORY TRENCH
- BG-1 LOCATION OF BACKGROUND SOIL SAMPLE
- BR-PM1 LOCATION OF MINING EXCAVATION SPOILS SAMPLE
- SP1 LOCATION OF HARD ROCK MINING EXCAVATION SPOILS STOCKPILE
- APPROXIMATE EXTENT OF WHITE SURFACE SOIL LAYER
- APPROXIMATE PROPERTY BOUNDARY



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SITE MAP
BERRIMAN RANCH
NEVADA COUNTY, CALIFORNIA

DESIGNED BY:	SLD
DRAWN BY:	SLD
DATE:	AUGUST 2007
FIGURE NO.:	2
PROJECT NO.:	1746-05

TABLES

Table 1	Total Metals in Ambient Soil
Table 2	Total Metals in White Sediment and Associated Soil
Table 3	Title 22 Metals in Soil Samples
Table 4	Total Metals in Mining Excavation Spoils

Table 1 - Total Metals in Ambient Soil Berriman Ranch Property Nevada County, California					
Test Method: EPA 6010 / 7471A (mg/kg)					
Sample ID	Sample Date	Sample Depth (feet)	Arsenic	Lead	Mercury
BG-1	6/8/2007	0.5	ND<1.0	36	0.3
BG-2	6/8/2007	0.5	ND<1.0	15.1	0.192
BG-3	6/8/2007	0.5	ND<1.0	13.3	0.161
BG-4	7/19/2007	0.5	ND<1.0	14.5	0.012
BG-5	7/19/2007	0.5	ND<1.0	18.5	0.121
BG-6	7/19/2007	0.5	ND<1.0	17.5	0.153
BG-7	7/19/2007	0.5	ND<1.0	16.2	0.276
BG-8	7/19/2007	0.5	ND<1.0	9.7	0.117
BG-9	7/19/2007	0.5	ND<1.0	7.0	0.136
BG-10	7/19/2007	0.5	ND<1.0	10.2	0.229

Notes:

- EPA = U.S. Environmental Protection Agency
- mg/kg = milligrams per kilogram
- ND< = Not detected above referenced laboratory reporting limit

Table 2 - Total Metals in White Sediment and Associated Soil Berriman Ranch Property Nevada County, California					
Test Method: EPA 6010 / 7471A (mg/kg)					
Sample ID	Sample Date	Sample Depth (feet)	Arsenic	Lead	Mercury
T-1BR-0.5	7/19/2007	0.5	134	107	8.7
T-3BR-0.5	6/8/2007	0.5	64.3	133	4.8
T-3BR-3.0'	6/8/2007	3	ND<1.0	ND<1.0	0.166
T-9BR-0.5'	6/8/2007	0.5	47.9	142	5.39
T-9BR-2.2'	6/8/2007	2.2	ND<1.0	ND<1.0	ND<1.0
T-12BR-0.5	6/8/2007	0.5	58.2	150	4.9
T-12BR-2.0'	6/8/2007	2.0	335	75.9	8.06
T-12BR-3.0'	7/19/2007	3.0	68.3	47.5	6.23
T-18BR-0.5	6/8/2007	0.5	5.6	4.1	0.313
T-23BR-0.5	6/8/2007	0.5	287	476	6.91
T-23BR-2.0	7/19/2007	2.0	166	105	7.87
T-25BR-0.5	6/8/2007	0.5	192	302	6.12
T-25BR-1.5	7/19/2007	1.5	131	105	5.80
T-26BR-0.5 ¹	7/19/2007	0.5	222	176	5.68
T-27BR-0.5 ¹	7/19/2007	0.5	76.6	92	5.32
T-28BR-0.5 ¹	7/19/2007	0.5	180	199	6.48
T-29BR-0.5	7/19/2007	0.5	87.5	117	6.25
T-30BR-0.5	7/19/2007	0.5	ND<1.0	10	1.30
T-31BR-0.5	7/19/2007	0.5	148	92	5.29
T-32BR-0.5	7/19/2007	0.5	358	398	6.38
T-33BR-0.5	7/19/2007	0.5	488	702	6.09
T-34BR-0.5	7/19/2007	0.5	123	171	5.08
T-35BR-0.5 ¹	7/19/2007	0.5	286	130	4.63

Notes:

Shaded cells indicate samples that were obtained from within the white layer of surface soil.

1 = Soil samples were also analyzed for organochlorine pesticides (OCPs) by EPA Method 8081A. OCPs were not detected in the soil samples.

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

ND< = Not detected above referenced laboratory reporting limit

Table 3 - Title 22 Metals in Soil Samples

Berriman Ranch Property
Nevada County, California

			EPA 6010B/7471A (mg/kg)																
Sample Number	Sample Date	Sample Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Field A	4/6/2007	0.5	2.9	30.4	29.3	ND<0.5	2.9	42	5.2	34.9	62.6	3.21	ND<1.0	3.9	ND<2.0	ND<2.0	ND<2.0	25.9	74.7
Berries C	4/6/2007	0.5	2.4	50.8	61.1	ND<0.5	2.7	56.3	7.5	49.5	49.5	6.46	ND<1.0	7.4	ND<2.0	ND<2.0	ND<2.0	41.5	103

EPA = U.S. Environmental Protection Agency

mg/kg = milligrams per kilogram

ND< = not detected above the referenced reporting limit

Table 4 - Total Metals in Mining Excavation Spoils Berriman Ranch Property Nevada County, California					
Test Method: EPA 6010 / 7471A (mg/kg)					
Sample ID	Sample Date	Sample Depth (feet)	Arsenic	Lead	Mercury
SP1-1	6/8/2007	0.5	ND<1.0	2.1	0.030
SP1-2	6/8/2007	4	ND<1.0	ND<1.0	0.01
SP2-1	6/8/2007	0.5	11.8	1.3	0.02
SP2-2	6/8/2007	2.5	3.4	1.3	0.025
SP3-1	6/8/2007	0.5	ND<1.0	9.7	0.147
BR-PM1	7/19/2007	0.5	9.9	12.3	0.147
BR-PM2	7/19/2007	0.5	ND<1.0	11.6	0.092
BR-PM3	7/19/2007	0.5	96.7	104.0	0.162
BR-PM4	7/19/2007	0.5	ND<1.0	10.5	2.04
BR-PM5	7/19/2007	0.5	ND<1.0	6.8	0.213

Notes:

EPA = Environmental Protection Agency

mg/kg = milligrams per kilogram

ND< = Not detected above referenced laboratory reporting limit

APPENDIX

Analytical Laboratory Reports

Chain of Custody Documentation

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

06 July 2007

Sean Dunbar

Holdrege & Kull-Nevada City

792 Searls Avenue

Nevada City, CA 95959

RE: Berriman Ranch Soil Investigation

Workorder number:0706128

Enclosed are the results of analyses for samples received by the laboratory on 06/26/07 19:00. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,

A handwritten signature in dark ink, appearing to read 'Laura Wilt', written over a horizontal line.

Laura Wilt, QA/QC Officer

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SP1-1	0706128-01	Soil	06/08/07 08:00	06/26/07 19:00
SP1-2	0706128-02	Soil	06/08/07 08:00	06/26/07 19:00
SP2-1	0706128-03	Soil	06/08/07 08:00	06/26/07 19:00
SP2-2	0706128-04	Soil	06/08/07 08:00	06/26/07 19:00
SP3-1	0706128-05	Soil	06/08/07 08:00	06/26/07 19:00
T-3BR-3.0	0706128-06	Soil	06/08/07 08:00	06/26/07 19:00
T-9BR-2.2	0706128-07	Soil	06/08/07 08:00	06/26/07 19:00
T-12BR-2.0	0706128-08	Soil	06/08/07 08:00	06/26/07 19:00

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

SP1-1 0706128-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	2.1	1.0	"	"	"	"	"	
Mercury	0.030	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

SP1-2 0706128-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	--------------------	-------	-------	------------------	------------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	ND	1.0	"	"	"	"	"	
Mercury	0.010	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

SP2-1 0706128-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	--------------------	-------	-------	------------------	------------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	11.8	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	1.3	1.0	"	"	"	"	"	
Mercury	0.020	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

SP2-2 0706128-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	3.4	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	1.3	1.0	"	"	"	07/06/07	"	
Mercury	0.025	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

SP3-1 0706128-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	9.7	1.0	"	"	"	07/06/07	"	
Mercury	0.147	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

T-3BR-3.0
0706128-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	ND	1.0	"	"	"	"	"	
Mercury	0.166	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

T-9BR-2.2
0706128-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	ND	1.0	"	"	"	"	"	
Mercury	ND	0.010	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

T-12BR-2.0
0706128-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	335	1.0	mg/kg	AQG0051	07/05/07	07/06/07	EPA 6010B	
Lead	75.9	1.0	"	"	"	"	"	
Mercury	8.06	0.020	"	AQG0052	"	07/06/07	EPA 7471A	

Excelchem Environmental Lab



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AQG0051 - EPA 6010B										
Blank (AQG0051-BLK1)				Prepared: 07/05/07 Analyzed: 07/06/07						
Arsenic	ND	1.0	mg/kg							
Lead	ND	1.0	"							
LCS (AQG0051-BS1)				Prepared: 07/05/07 Analyzed: 07/06/07						
Arsenic	93.4	1.0	mg/kg	100		93.4	80-120			
Lead	97.6	1.0	"	100		97.6	80-120			
LCS Dup (AQG0051-BSD1)				Prepared: 07/05/07 Analyzed: 07/06/07						
Arsenic	93.9	1.0	mg/kg	100		93.9	80-120	0.534	25	
Lead	96.2	1.0	"	100		96.2	80-120	1.44	25	
Matrix Spike (AQG0051-MS1)				Source: 0706128-01		Prepared: 07/05/07 Analyzed: 07/06/07				
Arsenic	86.7	1.0	mg/kg	100	ND	86.7	75-125			
Lead	95.5	1.0	"	100	2.1	93.4	75-125			
Matrix Spike Dup (AQG0051-MSD1)				Source: 0706128-01		Prepared: 07/05/07 Analyzed: 07/06/07				
Arsenic	88.4	1.0	mg/kg	100	ND	88.4	75-125	1.94	25	
Lead	94.2	1.0	"	100	2.1	92.1	75-125	1.37	25	
Batch AQG0052 - EPA 7471A										
Blank (AQG0052-BLK1)				Prepared: 07/05/07 Analyzed: 07/06/07						
Mercury	ND	0.010	mg/kg							
LCS (AQG0052-BS1)				Prepared: 07/05/07 Analyzed: 07/06/07						
Mercury	0.410	0.010	mg/kg	0.400		102	80-120			

Excelchem Environmental Lab



Laboratory Representative

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch AQG0052 - EPA 7471A

LCS Dup (AQG0052-BSD1)

Prepared: 07/05/07 Analyzed: 07/06/07

Mercury	0.411	0.010	mg/kg	0.400	103	80-120	0.244	20
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Matrix Spike (AQG0052-MS1)

Source: 0706128-01

Prepared: 07/05/07 Analyzed: 07/06/07

Mercury	0.429	0.010	mg/kg	0.400	0.030	99.8	75-125	
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Matrix Spike Dup (AQG0052-MSD1)

Source: 0706128-01

Prepared: 07/05/07 Analyzed: 07/06/07

Mercury	0.429	0.010	mg/kg	0.400	0.030	99.8	75-125	0.00	20
---------	-------	-------	-------	-------	-------	------	--------	------	----

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746-05
Project Manager: Sean Dunbar

Date Reported:
07/06/07 16:43

Notes and Definitions

ND - Analyte not detected at reporting limit

NR - Not reported

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

PH: 416/543-4446

Bill To:

1135 W. Sunset Blvd., Unit A
Rocklin, Ca. 95765

Environmental Labs

Project Manager:

SEAN DINBAR

Company/Address:

$$\frac{5}{2}$$

Project Number/P.O.#:

So-9h21

Project Location:

Sampler Signature:

Handwritten signature: *[Signature]*

Sampling

Date _____ Time _____

62-PM3	7/20/07
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1	1
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DK-FM7

Relinquished by:

17

Relinquished by:

Received by:

1

Received by Laboratory:

Bill To:

Electronic Data Deliverables Request:

Email Address:

CHAIN-OF-CUSTODY RECORD AND ANALYSIS REQUEST

ANALYSIS REQUEST

Page 3 of 3

[illegible][illegible]

Remarks/Condition of Sample:

Bill To:

EXCELCHEM
Environmental Labs

1135 W Sunset Boulevard
Suite A
Rocklin, CA 95765
Phone# 916-543-4445
Fax# 916-543-4449



ELAP Certificate No. : 2119

30 July 2007

Sean Dunbar

Holdrege & Kull-Nevada City

792 Searls Avenue


Nevada City, CA 95959

RE: Berriman Ranch Soil Investigation

Workorder number:0707090

Enclosed are the results of analyses for samples received by the laboratory on 07/20/07 15:15. All Quality Control results are within acceptable limits except where noted as a case narrative. If you have any questions concerning this report, please feel free to contact the laboratory.

Sincerely,


John Somers, Lab Director

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1br-0.5	0707090-01	Soil	07/19/07 08:00	07/20/07 15:15
T-12br-3.0	0707090-02	Soil	07/19/07 08:00	07/20/07 15:15
T-23br-2.0	0707090-03	Soil	07/19/07 08:00	07/20/07 15:15
T-25br-1.5	0707090-04	Soil	07/19/07 08:00	07/20/07 15:15
T-26br-0.5	0707090-05	Soil	07/19/07 08:00	07/20/07 15:15
T-27br-0.5	0707090-06	Soil	07/19/07 08:00	07/20/07 15:15
T-28br-0.5	0707090-07	Soil	07/19/07 08:00	07/20/07 15:15
T-29br-0.5	0707090-08	Soil	07/19/07 08:00	07/20/07 15:15
T-30br-0.5	0707090-09	Soil	07/19/07 08:00	07/20/07 15:15
T-31br-0.5	0707090-10	Soil	07/19/07 08:00	07/20/07 15:15
T-32br-0.5	0707090-11	Soil	07/19/07 08:00	07/20/07 15:15
T-33br-0.5	0707090-12	Soil	07/19/07 08:00	07/20/07 15:15
T-34br-0.5	0707090-13	Soil	07/19/07 08:00	07/20/07 15:15
T-35br-0.5	0707090-14	Soil	07/19/07 08:00	07/20/07 15:15
BG-4	0707090-15	Soil	07/19/07 08:00	07/20/07 15:15
BG-5	0707090-16	Soil	07/19/07 08:00	07/20/07 15:15
BG-6	0707090-17	Soil	07/19/07 08:00	07/20/07 15:15
BG-7	0707090-18	Soil	07/19/07 08:00	07/20/07 15:15
BG-8	0707090-19	Soil	07/19/07 08:00	07/20/07 15:15
BG-9	0707090-20	Soil	07/19/07 08:00	07/20/07 15:15
BG-10	0707090-21	Soil	07/19/07 08:00	07/20/07 15:15
BR-PM1	0707090-22	Soil	07/20/07 08:00	07/20/07 15:15
BR-PM2	0707090-23	Soil	07/20/07 08:00	07/20/07 15:15
BR-PM3	0707090-24	Soil	07/20/07 08:00	07/20/07 15:15
BR-PM4	0707090-25	Soil	07/20/07 08:00	07/20/07 15:15
BR-PM5	0707090-26	Soil	07/20/07 08:00	07/20/07 15:15

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-1br-0.5
0707090-01 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	--------------------	-------	-------	------------------	------------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	134	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	107	1.0	"	"	"	"	"	
Mercury	8.66	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-12br-3.0
0707090-02 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	--------------------	-------	-------	------------------	------------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	68.3	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	47.5	1.0	"	"	"	"	"	
Mercury	6.23	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Excelchem Environmental Lab.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-23br-2.0
0707090-03 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	-----------------	-------	-------	---------------	---------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	166	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	105	1.0	"	"	"	"	"	
Mercury	7.87	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-25br-1.5
0707090-04 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
---------	--------	--------------------	-------	-------	------------------	------------------	--------	-------

METALS BY 6000/7000 SERIES

Arsenic	131	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	105	1.0	"	"	"	"	"	
Mercury	5.80	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Excelchem Environmental Lab

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-26br-0.5
0707090-05 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	222	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	176	1.0	"	"	"	"	"	
Mercury	5.68	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Pesticides/PCB by ECD

.heptachlor	ND	0.005	mg/kg	AQG0175	07/25/07	07/26/07	EPA 8081A	
alpha-BHC	ND	0.005	"	"	"	"	"	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	

Surrogate: Decachlorobiphenyl

84.0 % % Recovery Limits

50-150

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-27br-0.5
0707090-06 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	76.6	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	91.5	1.0	"	"	"	07/25/07	"	
Mercury	5.32	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Pesticides/PCB by ECD

.heptachlor	ND	0.005	mg/kg	AQG0175	07/25/07	07/27/07	EPA 8081A	
alpha-BHC	ND	0.005	"	"	"	"	"	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	

Surrogate: Decachlorobiphenyl	86.0 %	% Recovery Limits	50-150	"
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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported: 07/30/07 15:39

T-28br-0.5
0707090-07 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	180	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	199	1.0	"	"	"	07/25/07	"	
Mercury	6.48	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Pesticides/PCB by ECD

.heptachlor	ND	0.005	mg/kg	AQG0175	07/25/07	07/27/07	EPA 8081A	
alpha-BHC	ND	0.005	"	"	"	"	"	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	

Surrogate: Decachlorobiphenyl

94.5 % % Recovery Limits

50-150

"

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-29br-0.5
0707090-08 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	87.5	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	117	1.0	"	"	"	07/25/07	"	
Mercury	6.25	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-30br-0.5
0707090-09 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	9.8	1.0	"	"	"	"	"	
Mercury	1.30	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-31br-0.5
0707090-10 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	148	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	91.6	1.0	"	"	"	"	"	
Mercury	5.29	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

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Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-32br-0.5
0707090-11 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	358	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	398	1.0	"	"	"	"	"	
Mercury	6.38	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

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Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-33br-0.5
0707090-12 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	488	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	702	1.0	"	"	"	"	"	
Mercury	6.09	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-34br-0.5
0707090-13 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	123	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	171	1.0	"	"	"	"	"	
Mercury	5.08	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

T-35br-0.5
0707090-14 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	286	1.0	mg/kg	AQG0181	07/21/07	07/25/07	EPA 6010B	
Lead	130	1.0	"	"	"	"	"	
Mercury	4.63	0.010	"	AQG0211	"	07/27/07	EPA 7471A	

Pesticides/PCB by ECD

.heptachlor	ND	0.005	mg/kg	AQG0175	07/25/07	07/27/07	EPA 8081A	
alpha-BHC	ND	0.005	"	"	"	"	"	
beta-BHC	ND	0.005	"	"	"	"	"	
gamma-BHC (Lindane)	ND	0.005	"	"	"	"	"	
delta-BHC	ND	0.005	"	"	"	"	"	
Aldrin	ND	0.005	"	"	"	"	"	
Heptachlor epoxide	ND	0.005	"	"	"	"	"	
gamma-Chlordane	ND	0.005	"	"	"	"	"	
Endosulfan I	ND	0.005	"	"	"	"	"	
alpha-Chlordane	ND	0.005	"	"	"	"	"	
4,4'-DDE	ND	0.005	"	"	"	"	"	
Dieldrin	ND	0.005	"	"	"	"	"	
Endrin	ND	0.005	"	"	"	"	"	
Endosulfan II	ND	0.005	"	"	"	"	"	
4,4'-DDD	ND	0.005	"	"	"	"	"	
Endrin aldehyde	ND	0.005	"	"	"	"	"	
Endosulfan sulfate	ND	0.005	"	"	"	"	"	
4,4'-DDT	ND	0.005	"	"	"	"	"	
Endrin Ketone	ND	0.005	"	"	"	"	"	
Methoxychlor	ND	0.005	"	"	"	"	"	
Toxaphene	ND	0.050	"	"	"	"	"	

Surrogate: Decachlorobiphenyl

83.0 % % Recovery Limits

50-150

"

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-4
0707090-15 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	14.5	1.0	"	"	"	"	"	
Mercury	0.012	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-5 0707090-16 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	18.5	1.0	"	"	"	"	"	
Mercury	0.121	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-6 0707090-17 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	17.5	1.0	"	"	"	"	"	
Mercury	0.153	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-7
0707090-18 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	16.2	1.0	"	"	"	"	"	
Mercury	0.276	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-8 0707090-19 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	9.7	1.0	"	"	"	07/27/07	"	
Mercury	0.117	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-9
0707090-20 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	7.0	1.0	"	"	"	07/27/07	"	
Mercury	0.136	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BG-10 0707090-21 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	10.2	1.0	"	"	"	07/27/07	"	
Mercury	0.229	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BR-PM1 0707090-22 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	9.9	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	12.3	1.0	"	"	"	07/27/07	"	
Mercury	0.142	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BR-PM2 0707090-23 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	11.6	1.0	"	"	"	"	"	
Mercury	0.092	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BR-PM3
0707090-24 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	96.7	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	104	1.0	"	"	"	"	"	
Mercury	0.162	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BR-PM4 0707090-25 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	10.5	1.0	"	"	"	"	"	
Mercury	2.04	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

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Nevada City, CA 95959

Project: Berriman Ranch Soil Investigation
Project Number: 1746.05
Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

BR-PM5 0707090-26 (Soil)

Analyte	Result	Reporting Limit	Units	Batch	Date Prepared	Date Analyzed	Method	Notes
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METALS BY 6000/7000 SERIES

Arsenic	ND	1.0	mg/kg	AQG0168	07/24/07	07/27/07	EPA 6010B	
Lead	6.8	1.0	"	"	"	07/27/07	"	
Mercury	0.213	0.010	"	AQG0211	07/21/07	07/27/07	EPA 7471A	

Excelchem Environmental Lab.

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Laboratory Representative

Excelchem Environmental Labs

Holdrege & Kull-Nevada City
792 Searls Avenue
Nevada City, CA 95959

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Project Manager: Sean Dunbar

Date Reported:
07/30/07 15:39

METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch AQG0168 - EPA 6010B										
Blank (AQG0168-BLK1)				Prepared & Analyzed: 07/24/07						
Arsenic	ND	1.0	mg/kg							
Lead	ND	1.0	"							
LCS (AQG0168-BS1)				Prepared & Analyzed: 07/24/07						
Arsenic	105	1.0	mg/kg	100		105	75-125			
Lead	96.5	1.0	"	100		96.5	75-125			
LCS Dup (AQG0168-BSD1)				Prepared & Analyzed: 07/24/07						
Arsenic	106	1.0	mg/kg	100		106	75-125	0.948	25	
Lead	98.4	1.0	"	100		98.4	75-125	1.95	25	
Matrix Spike (AQG0168-MS1)				Source: 0707098-01		Prepared & Analyzed: 07/24/07				
Arsenic	102	1.0	mg/kg	100	1.1	101	75-125			
Lead	96.1	1.0	"	100	0.9	95.2	75-125			
Matrix Spike Dup (AQG0168-MSD1)				Source: 0707098-01		Prepared & Analyzed: 07/24/07				
Arsenic	105	1.0	mg/kg	100	1.1	104	75-125	2.90	25	
Lead	97.6	1.0	"	100	0.9	96.7	75-125	1.55	25	
Batch AQG0181 - EPA 6010B										
Blank (AQG0181-BLK1)				Prepared: 07/21/07 Analyzed: 07/25/07						
Arsenic	ND	1.0	mg/kg							
Lead	ND	1.0	"							
LCS (AQG0181-BS1)				Prepared: 07/21/07 Analyzed: 07/25/07						
Arsenic	89.5	1.0	mg/kg	100		89.5	75-125			
Lead	93.0	1.0	"	100		93.0	75-125			

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METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AQG0181 - EPA 6010B

LCS Dup (AQG0181-BSD1)

Prepared: 07/21/07 Analyzed: 07/25/07

Arsenic	92.9	1.0	mg/kg	100		92.9	75-125	3.73	25	
Lead	96.6	1.0	"	100		96.6	75-125	3.80	25	

Matrix Spike (AQG0181-MS1)

Source: 0707082-01

Prepared: 07/21/07 Analyzed: 07/25/07

Arsenic	93.9	1.0	mg/kg	100	ND	93.9	75-125			
Lead	236	1.0	"	100	161	75.0	75-125			

Matrix Spike Dup (AQG0181-MSD1)

Source: 0707082-01

Prepared: 07/21/07 Analyzed: 07/25/07

Arsenic	91.5	1.0	mg/kg	100	ND	91.5	75-125	2.59	25	
Lead	224	1.0	"	100	161	63.0	75-125	5.22	25	QM-07

Batch AQG0211 - EPA 7471A

Blank (AQG0211-BLK1)

Prepared: 07/21/07 Analyzed: 07/27/07

Mercury	ND	0.010	mg/kg							
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Blank (AQG0211-BLK2)

Prepared: 07/21/07 Analyzed: 07/27/07

Mercury	ND	0.010	mg/kg							
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LCS (AQG0211-BS1)

Prepared: 07/21/07 Analyzed: 07/27/07

Mercury	0.427	0.010	mg/kg	0.400		107	80-120			
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LCS (AQG0211-BS2)

Prepared: 07/21/07 Analyzed: 07/27/07

Mercury	0.415	0.010	mg/kg	0.400		104	80-120			
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LCS Dup (AQG0211-BSD1)

Prepared: 07/21/07 Analyzed: 07/27/07

Mercury	0.441	0.010	mg/kg	0.400		110	80-120	3.23	20	
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METALS BY 6000/7000 SERIES - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AQG0211 - EPA 7471A

LCS Dup (AQG0211-BSD2)

Prepared: 07/21/07 Analyzed: 07/27/07

Mercury	0.427	0.010	mg/kg	0.400		107	80-120	2.85	20	
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Pesticides/PCB by ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AQG0175 - EPA 8081A

Blank (AQG0175-BLK1)

Prepared: 07/25/07 Analyzed: 07/26/07

Surrogate: Decachlorobiphenyl	0.0185		mg/kg	0.0200	92.5	50-150
.heptachlor	ND	0.005	"			
alpha-BHC	ND	0.005	"			
beta-BHC	ND	0.005	"			
gamma-BHC (Lindane)	ND	0.005	"			
delta-BHC	ND	0.005	"			
Aldrin	ND	0.005	"			
Heptachlor epoxide	ND	0.005	"			
gamma-Chlordane	ND	0.005	"			
Endosulfan I	ND	0.005	"			
alpha-Chlordane	ND	0.005	"			
4,4'-DDE	ND	0.005	"			
Dieldrin	ND	0.005	"			
Endrin	ND	0.005	"			
Endosulfan II	ND	0.005	"			
4,4'-DDD	ND	0.005	"			
Endrin aldehyde	ND	0.005	"			
Endosulfan sulfate	ND	0.005	"			
4,4'-DDT	ND	0.005	"			
Endrin Ketone	ND	0.005	"			
Methoxychlor	ND	0.005	"			
Toxaphene	ND	0.050	"			

LCS (AQG0175-BS1)

Prepared: 07/25/07 Analyzed: 07/26/07

Surrogate: Decachlorobiphenyl	0.0176		mg/kg	0.0200	88.0	50-150
.heptachlor	0.016	0.005	"	0.0200	80.0	50-150
gamma-BHC (Lindane)	0.016	0.005	"	0.0200	80.0	50-150
Aldrin	0.015	0.005	"	0.0200	75.0	50-150
Dieldrin	0.040	0.005	"	0.0500	80.0	50-150
Endrin	0.052	0.005	"	0.0500	104	50-150
4,4'-DDT	0.050	0.005	"	0.0500	100	50-150

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Pesticides/PCB by ECD - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch AQG0175 - EPA 8081A

LCS Dup (AQG0175-BSI)

Prepared: 07/25/07 Analyzed: 07/26/07

Surrogate: Decachlorobiphenyl	0.0184		mg/kg	0.0200		92.0	50-150			
.heptachlor	0.017	0.005	"	0.0200		85.0	50-150	6.06	25	
gamma-BHC (Lindane)	0.017	0.005	"	0.0200		85.0	50-150	6.06	25	
Aldrin	0.016	0.005	"	0.0200		80.0	50-150	6.45	25	
Dieldrin	0.042	0.005	"	0.0500		84.0	50-150	4.88	25	
Endrin	0.055	0.005	"	0.0500		110	50-150	5.61	25	
4,4'-DDT	0.051	0.005	"	0.0500		102	50-150	1.98	25	

Matrix Spike (AQG0175-MS1)

Source: 0707090-14

Prepared: 07/25/07 Analyzed: 07/27/07

Surrogate: Decachlorobiphenyl	0.0164		mg/kg	0.0200		82.0	50-150			
.heptachlor	0.014	0.005	"	0.0200	ND	70.0	50-150			
gamma-BHC (Lindane)	0.016	0.005	"	0.0200	ND	80.0	50-150			
Aldrin	0.015	0.005	"	0.0200	ND	75.0	50-150			
Dieldrin	0.038	0.005	"	0.0500	ND	76.0	50-150			
Endrin	0.060	0.005	"	0.0500	0.004	112	50-150			
4,4'-DDT	0.041	0.005	"	0.0500	ND	82.0	50-150			

Matrix Spike Dup (AQG0175-MSD1)

Source: 0707090-14

Prepared: 07/25/07 Analyzed: 07/27/07

Surrogate: Decachlorobiphenyl	0.0171		mg/kg	0.0200		85.5	50-150			
.heptachlor	0.015	0.005	"	0.0200	ND	75.0	50-150	6.90	25	
gamma-BHC (Lindane)	0.016	0.005	"	0.0200	ND	80.0	50-150	0.00	25	
Aldrin	0.016	0.005	"	0.0200	ND	80.0	50-150	6.45	25	
Dieldrin	0.039	0.005	"	0.0500	ND	78.0	50-150	2.60	25	
Endrin	0.062	0.005	"	0.0500	0.004	116	50-150	3.28	25	
4,4'-DDT	0.043	0.005	"	0.0500	ND	86.0	50-150	4.76	25	

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Notes and Definitions

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

ND - Analyte not detected at reporting limit.

NR - Not reported

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