



Team 9, a Joint Venture  
3700 Industry Avenue, Suite 102  
Lakewood, CA 90712  
Tel: (562) 989-8494  
Fax: (562) 989-8537

May 28, 2008

TDD No. TO5-09-07-04-0002  
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Tom Dunkelman, Federal On-Scene Coordinator  
United States Environmental Protection Agency  
Emergency Response Office  
901 South Stewart Street  
Carson City, Nevada 89701

**Subject: Anaconda Ponds Assessment Report  
Former Anaconda Copper Mine  
102 Burch Drive  
Yerington, Nevada 92274  
Latitude 38.994° North; Longitude 119.198° West**

Dear Mr. Dunkelman,

The Team 9 Superfund Technical Assessment and Response Team is pleased to provide the following Anaconda Ponds Assessment Report describing sampling activities conducted at the Anaconda Ponds site in July and August 2007.

If you have any questions or require any additional information regarding this submittal, please do not hesitate to contact me at 415-828-9419.

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Schwennesen", with a long horizontal flourish extending to the right.

Mike Schwennesen  
Team 9 Project Manager

cc: Electronic Deliverable Systems 2  
START Project File



## **Anaconda Ponds Assessment Report**

### **INTRODUCTION**

The United States Environmental Protection Agency, Region 9, Emergency Response Section (U.S. EPA) tasked Team 9's Superfund Technical Assessment and Response Team (START) to conduct soil sampling at leach ponds located at the former Anaconda copper mine in Yerington, Lyon County, Nevada. Over the period July 30 through August 1, 2007, the START and personnel from the U.S. EPA Environmental Response Team's Response Engineering and Analytical Contract (REAC) utilized direct-push drilling equipment to collect samples from the surface and from discrete depths below each of eight leach ponds. This report describes the field sampling activities conducted, and presents the analytical results for the sampling.

### **SITE LOCATION AND DESCRIPTION**

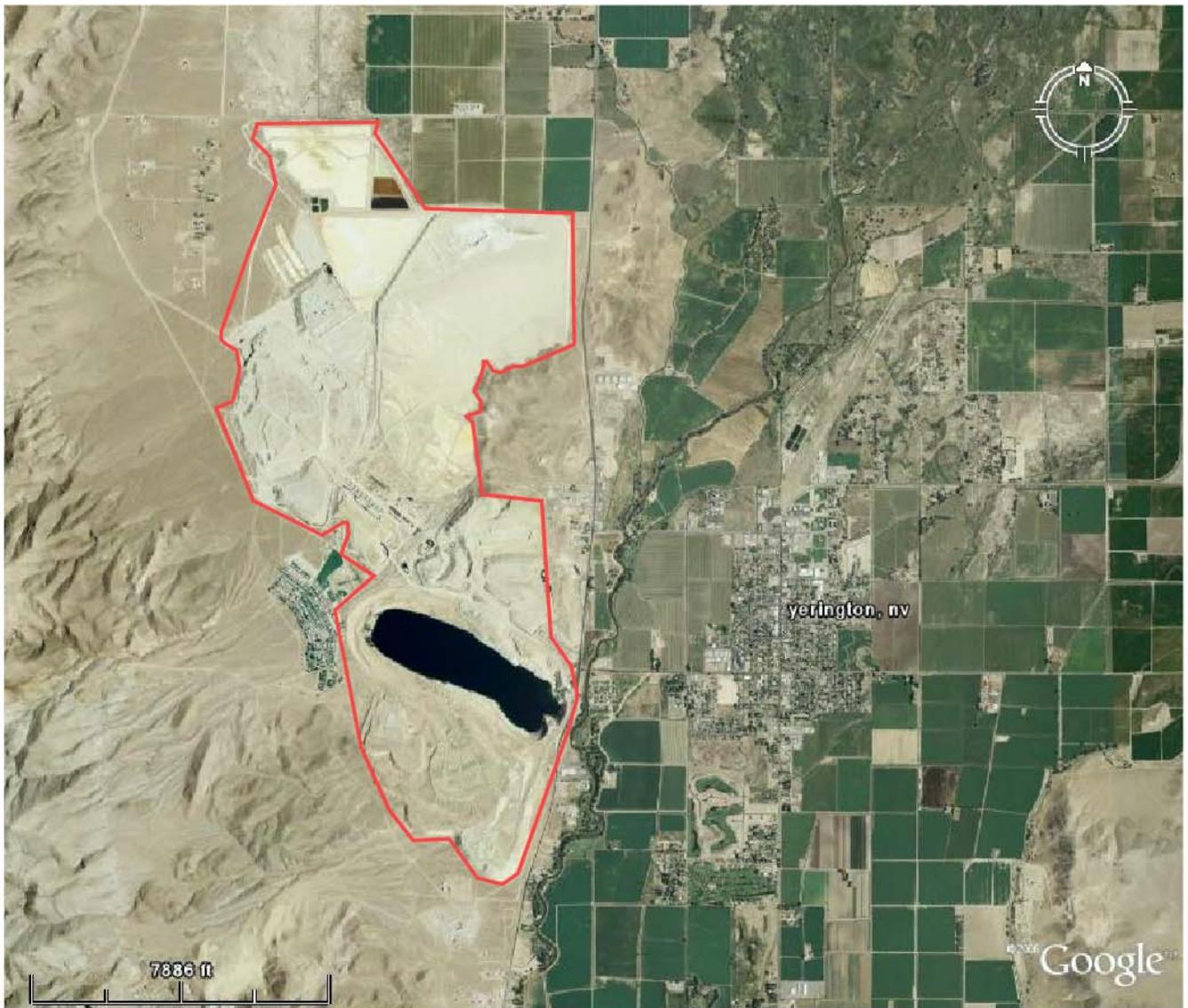
The former Anaconda mine site is an open-pit copper mine and related processing areas, evaporation ponds, and stockpiles comprising an area of more than 3400 acres. Mining operations at the site began in approximately 1918, and ceased in 2000. The mine is located at 102 Burch Drive, off Highway 95 approximately two miles west of the town of Yerington, Lyon County, Nevada (Figure 1). The geographic coordinates for the site are 38.994° North latitude and 119.198° West longitude. The mine site is bordered to the north by agricultural land, to the east by Highway 95, to the west and southwest by the Singatse mountain range and the town of Weed Heights, and to the south by United States Bureau of Land Management land.

### **PURPOSE OF SAMPLING**

A copper recovery process employed at the site from approximately 1988 to 2000 involved the leaching of dilute sulfuric acid through spent mine tailings and the subsequent collection of the copper-rich acidic leachate in ponds which were lined with a synthetic membrane. As a first step toward the removal and closure of the ponds, U.S. EPA federal On-Scene Coordinator (FOSC) Tom Dunkelman requested that the START and REAC conduct stratified soil sampling below the ponds to determine whether metals, acids, or other contaminants have infiltrated below the pond liner barriers. Such an infiltration could adversely affect the groundwater in the area.

### **LEACH POND SOIL SAMPLING**

Soil sampling at the site was conducted according to a START-prepared sampling plan, *EPA Emergency Response Section (ERS) And Superfund Technical Assessment and Response Team (START) Emergency Response and Time Critical Quality Assurance Sampling Plan For Soil, Water and Miscellaneous Matrix Sampling*, July 6, 2007 (QASP)(Attachment 1). All ponds were dry or nearly dry at the time of sampling. All of the ponds had dried leachate sludge contained above the pond liner, which was sampled in addition to sub-liner soil samples. The U.S. EPA's Emergency and Rapid Response Services (ERRS) removal contractor provided personnel to operate an excavator, which was used to construct ramps for the direct-push drill rig to enter some of the ponds that had steep sidewalls. The excavator was also used to create stepped platforms on some pond sidewalls, from which the drill rig could operate.



Approximate Boundary of Mine Site



**Figure 1**  
**Site Location Map**  
**Former Anaconda Copper Mine**  
**Yerington, Nevada**



## Ponds Sampled

Eight leach ponds were designated for sampling by FOOSC Dunkelman: South Slot, Mega, Phase 1, Phase 1 Sediment, Bathtub, Old Raffinate, New Raffinate, and Plant Feed. The locations of the leach ponds are shown on Figure 2.

## Analytical Parameters Investigated

The analytical parameters investigated and the analytical methods employed for the samples were determined by consensus of the U.S. EPA, the START, and REAC prior to the initiation of the field work. The parameters and analytical methods are presented below. Target analyte list metals were investigated, and because historically an extractant product called ACORGA® was mixed with kerosene and the solution used in the Raffinate ponds in a solvent-extraction process to recover copper, volatile organic compounds (VOCs), semivolatile organic compounds (SVOCs), and total petroleum hydrocarbons (TPH, both as kerosene and motor oil) were also investigated. A photoionization detector and flame ionization detector were used to scan all soil cores from all leach ponds for any volatile organic compounds. Only the Old Raffinate and New Raffinate pond soils showed detectable readings with the instruments, and therefore only the samples from those two ponds were analyzed for VOCs, SVOCs, and TPH.

One sample from each soil boring was also collected for radiological parameters analysis. The soil samples collected for radiological parameters analyses were maintained under REAC chain of custody, and were analyzed by a REAC laboratory.

<b>Analytical Parameters Investigated Anaconda Ponds Assessment</b>	
<b>Parameter</b>	<b>Analytical Method</b>
Target Analyte List metals (23 metals) plus boron and molybdenum	U.S. EPA Method 6010B, 7471A
Volatile Organic Compounds (VOCs) (Old and New Raffinate ponds, below the liner only)	U.S. EPA Method 8260B
Semivolatile Organic Compounds (SVOCs) (Old and New Raffinate ponds)	U.S. EPA Method 8270C
pH (Soil)	U.S. EPA Method 9045
Total Petroleum Hydrocarbons (TPH) (as kerosene and motor oil)	U.S. EPA Method 8015m
<b>Radiological Parameters:</b>	
Radium-226	Radon Emanation following U.S. EPA 903.0
Gross Alpha and Beta	U.S. EPA 900.0 (modified)
Gamma-Emitting Radionuclides	U.S. EPA 901.1 (modified)

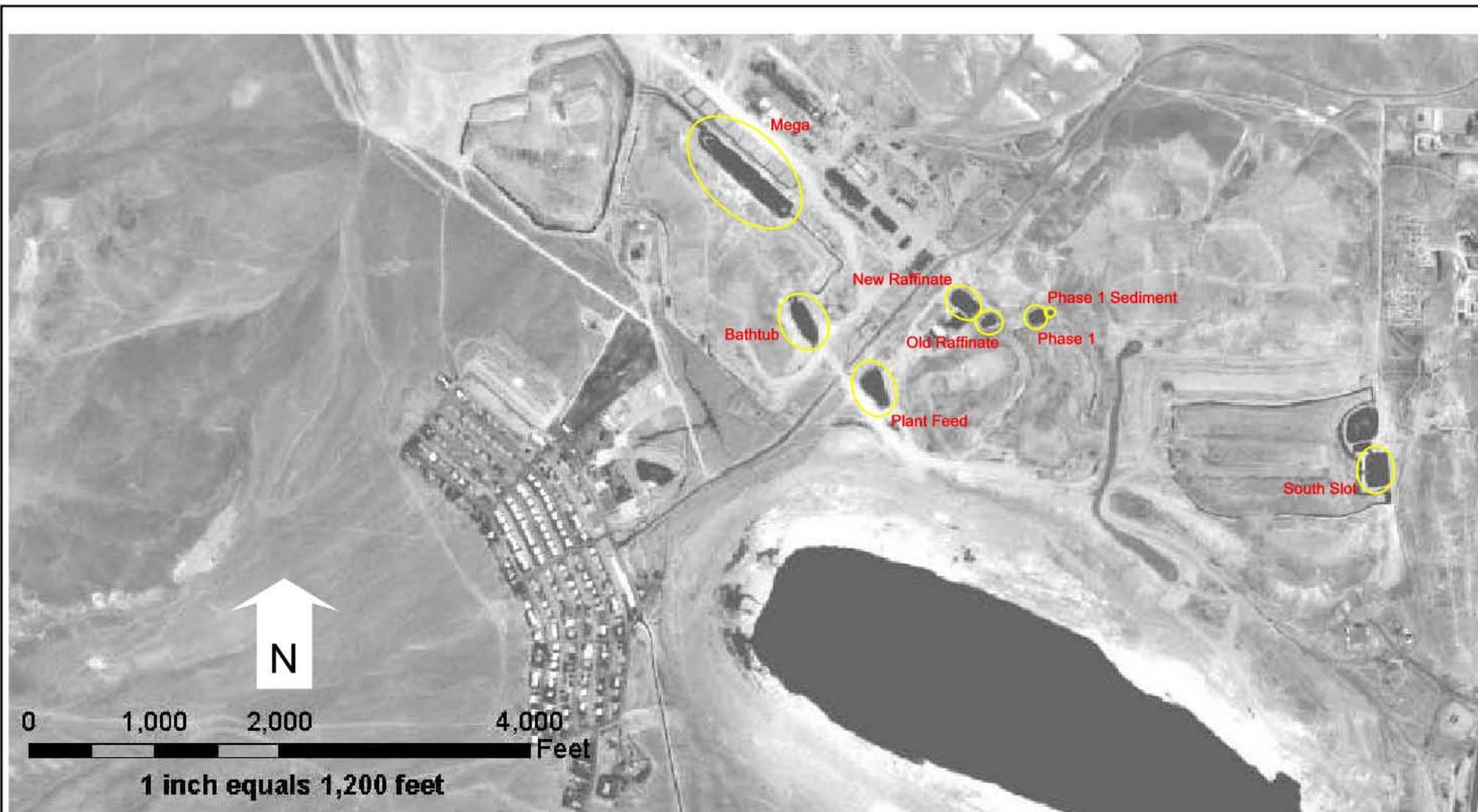


Figure 2  
Leach Ponds Sampled by the START and REAC  
Anaconda Ponds Assessment  
July-August 2007



### **Action Levels**

Site-specific action levels have not been determined. However, potential site-specific action levels are discussed below.

Potential site-specific action levels for metals, VOCs, and SVOCs analytes are the 2004 U.S. EPA Preliminary Remediation Goals (PRGs) for industrial soil or residential soil. However, in the case of the metal arsenic, the industrial PRG of 1.6 milligrams per kilogram (mg/kg) is well below the typical concentration of arsenic found at the site. For the arsenic parameter, background studies will likely be required in order to establish an appropriate action level.

The potential site-specific action level for total petroleum hydrocarbons (TPH) is 100 mg/kg, of either kerosene or motor oil, which is the Nevada Department of Environmental Protection (NDEP) corrective action level.

There are currently no site-specific action levels for the radiological parameters. Potential action levels for non-radiological analyses are included with the tabulated analytical results which are presented in Attachment 2, Tables 1-4.

### **Sampling Procedures**

At every leach pond sampled, the START first collected a sample of the dried pond sludge above the synthetic pond liner. Direct-push drilling equipment was then used to push through the synthetic pond liner and drill to a maximum 30-foot depth below the pond liner, or until the direct-push equipment could go no further. Continuous sample cores were collected in acrylic sleeves and temporarily stored pending completion of sampling. Soil samples were collected from the acrylic sample cores at 1-, 2-, 5-, 10-, 20-, and 30-foot depths. In some cases the 30-foot depth could not be achieved, and a sample was collected at the refusal depth. Upon completion of the boring to the 30-foot depth or to refusal depth, a polyvinyl chloride (PVC) pipe was temporarily placed down-hole and a gamma radiation detection instrument was slowly dropped down through the PVC to determine the depth of highest gamma-radiation count. A sample was then collected out of the stored sample cores from the depth of highest gamma reading, or, if a sample had already been collected from that depth for chemical analysis, the radiological sample was collected from an interval as close to that depth as possible. When all sampling had been completed in a soil boring, the soil boring was backfilled with bentonite grout. A global positioning system instrument was then used to document the soil boring location.

Figure 3 presents the locations of the soil borings in each of the eight ponds. One soil boring was drilled into each leach pond, with the exception of the Mega leach pond, at which three soil borings were drilled and sampled.

The Mega leach pond contained several feet of dried sludge which had to be penetrated to reach the pond liner. At the first Mega leach pond soil boring, Mega-1, sampling was discontinued at 10 feet below the surface of the liner when liquid began infiltrating the hole. As a result, the Mega-1 soil boring was immediately sealed with bentonite grout. It is suspected that the dried sludge above the liner actually had a liquid component at depth, which was released when the pond liner was punctured. Because of the liquid infiltration, the second and third soil boring locations in the Mega pond were drilled from steps constructed on the sidewall of the pond. When the drill rig was



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DIGITALGLOBE

**LEGEND**  
 ● Soil boring location



Anaconda Ponds Assessment  
 28067219

Leach Pond  
 Soil Boring Locations

**Figure 3**  
 January 2008

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operated from a stepped sidewall of any pond, measurements were obtained in order to determine the vertical depth to the pond floor. That depth was then used as the starting point for the collection of sub-pond-floor samples. At the Mega-2 soil boring, refusal was reached at approximately 20 feet below the pond liner. An adjacent soil boring, Mega-2B, was therefore drilled, and the 20-foot and 30-foot samples were successfully collected in this adjacent soil boring.

Subsurface soil and dried pond sludge samples were collected into 8-ounce glass jars using disposable trowels. Blind duplicate samples were prepared by placing a double-volume of soil from a soil core into a baggie, homogenizing the soil, and then splitting the soil between two jars. One jar was then identified with the appropriate sampling interval in the sample name, while the other was given a fictitious sample name. Additional samples were therefore at times analyzed in addition to the 1-, 2-, 5-, 10-, 20-, and 30-foot depths. The sample results for blind duplicate samples with fictitious sample names are not included in the Attachment 2 tables, but they were an important element in the data validation process conducted by the START on all generated leach pond data.

All soil samples except the radiological samples were shipped to the U.S. EPA's Region 9 laboratory in Richmond, California for analysis. The radiological samples were maintained under REAC custody and analyzed by a REAC laboratory. The laboratory data reporting sheets are appended to this report in Attachment 3. All results, including the radiological sample results, were validated by a START chemist following *Quality Assurance/ Quality Control Guidance for Removal Activities, Sampling QA/QC Plan Validation Procedures*, OSWER Directive 9360.4-1, April 1990. The START data validation reports are submitted under separate cover. The data were found to be acceptable as definitive category data, and determined to be usable to meet project use objectives.

Three sample jars were broken during transit to the laboratory, and could not be analyzed. The samples lost were Mega-2-1', Mega-2-10', and Mega-2-30'.

## **ANALYTICAL RESULTS**

Results for the non-radiological samples are presented in Attachment 2, Tables 1-4. Table 1 presents the total metals and pH results; Table 2 presents the TPH results; Table 3 presents the SVOC results, and Table 4 presents the VOC results. When applicable, more-stringent U.S. EPA residential PRGs are included in the tables along with the industrial PRGs.

Radiological sample results are presented in Attachment 2, Table 5. For comparative purposes, results for three background samples collected by a separate START team on August 7, 2007 are also included in the table.

### **Non-Radiological Parameters**

#### Volatile Organic Compounds

No START-investigated VOC analytes were detected, in any of the samples collected, at concentrations above their respective residential or industrial PRGs, which are potential site-specific action levels.



### Semivolatile Organic Compounds

No START-investigated SVOC analytes were detected, in any of the samples collected, at concentrations above their respective residential or industrial PRGs, which are potential site-specific action levels. Tentatively-identified hydrocarbon compounds identified by the SVOC analytical method did exceed the NDEP TPH action level, and this data was corroborated by the TPH analysis discussed below.

### Total Petroleum Hydrocarbons

TPH (as kerosene) was found in the Old Raffinate leach pond at concentrations that exceeded the NDEP action level of 100 mg/kg, at all depths from the surface down to 23 feet below ground surface. A 30-foot-depth sample from this pond indicated a TPH concentration of 5 mg/kg.

TPH (as kerosene) was also found in the surface sample of the New Raffinate pond, which was collected above the pond liner. All samples collected below the liner indicated TPH concentrations well below the NDEP action level of 100 mg/kg.

The TPH analyses were conducted by a gas chromatography (GC) technique. Tentatively identified compounds (TICs) were found in some of the Old Raffinate and New Raffinate leach pond samples analyzed for VOCs and SVOCs by gas chromatography/mass spectrometry (GC/MS). These TICs are listed with other analytes in the individual sample data reporting sheets (Attachment 3). Because these compounds are only tentatively identified (no calibration standards were used by the laboratory to confirm their identification), Tables 3 and 4 in Attachment 2 present the TICs as a total hydrocarbon component. The TIC concentrations support the TPH (by GC) analytical finding that TPH contamination in the Old Raffinate leach pond extends to at least 23 feet below the surface of the pond.

### Metals

Three metals, copper, iron, and lead, were found at concentrations exceeding a potential site-specific action level. A fourth metal, thallium, is also discussed below.

Copper was found in five samples from five different ponds at concentrations exceeding the residential PRG potential site-specific action level. These five samples were all collected from the surfaces of the ponds, above the pond liners. In no case was a concentration of copper found in a sample collected below a pond liner that exceeded a potential site-specific action level. None of the samples collected exceeded the industrial PRG for copper.

Iron concentrations exceeding the residential PRG potential site-specific action level were found in two ponds (Bathtub and South Slot) at one and two feet below the pond surface. These samples were collected below the pond liners. Concentrations of iron typically dropped with depth. None of the samples collected exceeded the industrial PRG for iron.

Lead concentrations exceeding either the residential or industrial PRG potential site-specific action levels were found in the surface samples (above the pond liner) of the Old Raffinate, New Raffinate, and Phase 1 ponds. In no case was a concentration of lead found in a sample collected below a pond liner that exceeded a potential site-specific action level.



Thallium was not found to exceed its industrial PRG potential site-specific action level in any of the samples collected. However, the residential PRG concentration for thallium is near or below the detection limit achievable for the samples, and therefore it is uncertain whether the thallium residential PRG potential site-specific action level has been exceeded.

### pH

The pH analytical results indicate that the dried surface sludge from each leach pond has a pH of between 2 and 3. The pH of the subsurface soils then generally rises with depth. Although near-neutral soils were expected to be found below the synthetic liner, they were not. This indicates that the synthetic leach pond liners may not have provided a complete barrier for this parameter.

### **Radiological Parameters**

Attachment 2, Table 5 presents the results of the radiological analyses conducted on one sample collected from each pond. For comparative purposes, data for background samples collected from other areas of the mine site on August 7, 2007 are also presented. The background samples were collected as part of a separate U.S. EPA investigation, and the radiological methods used were not always identical.

The background samples were investigated for gross alpha and gross beta parameters by U.S. EPA Method 900.0; and for element-specific parameters by the U.S. EPA National Air and Radiation Environmental Laboratory, gamma spectroscopy analysis (GAM-01) method and the U.S. Department of Energy, Environmental Measurements Laboratory, Health and Safety Laboratory HASL-300, 4.5.2.3 method.

The pond samples were investigated for gross alpha and gross beta parameters by U.S. EPA Method 900.0, and for element-specific parameters by U.S. EPA Methods 901.1 and 903.0.

### Gross Alpha

Gross alpha concentrations in all samples (including background samples) except the Bathtub pond sample were similar and indicate no significant elevated levels. The Bathtub pond sample contains a relatively greater concentration of gross alpha than the other samples; however, the START forwarded the data to a U.S. EPA radiation expert and a U.S. EPA-contracted radiation expert for review, and their consensus was that the difference was not significant.

### Gross Beta

Background samples and the Bathtub sample contained elevated concentrations of the gross beta parameter relative to other samples. However, as with the gross alpha parameter, the START had the data reviewed by U.S. EPA experts who determined that the differences were not significant.

### Radioactive Elements

Radioactive elements investigated showed no elevated or significant concentrations.

## **CONCLUSIONS**

A START investigation of subsurface soils below eight leach ponds has indicated that seven of the ponds showed no significant contamination below their synthetic liners, with the exception of the parameters iron and pH. One leach pond, the Old Raffinate pond, was found to have TPH contamination down to at least 23 feet below ground surface.



While it is clear that low-pH fluids have migrated to the subsurface in the ponds, it does not appear that other contaminants (such as metals) have migrated significantly into the subsurface.

The data presented in this report support closure of seven of the eight ponds in place, and suggest that additional investigation or remediation may be necessary in the case of the Old Raffinate pond.

# **ATTACHMENT 1**

## **Quality Assurance Sampling Plan**

# **ATTACHMENT 2**

## **Tables**

Table 1  
Validated Soil Sample Results  
Total Metals and pH  
USEPA 6000/7000 Series Methods and 9045C Method  
Anaconda Ponds Assessment  
Metals Concentrations in Milligrams per Kilogram, dry weight  
Samples Collected 7/30/07 - 8/1/07

	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (III)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	pH
2004 USEPA PRG (Residential)*-->	23	76000	31	0.39**	5400	150	16000	37	-	100000	900	3100	23000	400	-	1800	390	-	-	390	390	-	5.2	78	23000	-
2004 USEPA PRG (Industrial)*-->	310	100000	410	1.6**	67000	1900	100000	450	-	100000	1900	41000	100000	800	-	19000	5100	-	-	5100	5100	-	67	1000	100000	-
Old Raff 1-Surface	6.8	13000	<2.7	7.9	140	0.92	12	<0.67	910	21	20	2800 J	6600	46000	7900 J	270 J	7	23	1200	3.3	0.74	1500 J	<6.7	8.9	29	2.3 J
Old Raff 1-1'	0.053	12000	<2.2	5.2	72	0.37	<11	<0.54	10000 J	11	4.8	440	16000	4.7	4700 J	140	<5.4	6.7	1900	<2.2	<1.1	270	<5.4	41	25	4.0 J
Old Raff 1-2'	0.070	11000	<2.1	4.8	84	0.33	<11	<0.53	6900 J	12	4.5	400	21000	4.4	4500 J	130	<5.3	6.9	2400	<2.1	<1.1	250	<5.3	59	27	3.7 J
Old Raff 1-5'	0.097	11000	<2.2	4.4	54	0.36	<11	<0.54	9900 J	8.1	4.5	460	12000	3.5	3600 J	120	<5.4	7.7	1400	<2.2	<1.1	220	<5.4	28	27	4.2 J
Old Raff 1-10'	0.021	18000	<2.2	6.0	48	0.70	9.5	<0.55	13000 J	12	10	680	19000	4.2	5000 J	240	<5.5	10	2600	<2.2	<1.1	280	<5.5	44	37	4.3 J
Old Raff 1-20'	0.10	13000	<2.2	6.5	89	0.52	13	<0.56	8200 J	10	12	97	17000	5.8	6000 J	460	<5.6	12	2100	<2.2	<1.1	460	<5.6	40	30	7.3 J
Old Raff 1-22'	<0.028	14000	<2.3	9.1	110	0.28	14	<0.57	28000 J	9.1	6.5	220	9100	5.3	7600 J	470	<5.7	8.4	2800	<2.3	<1.1	560	<5.7	41	34	7.7 J
Old Raff 1-30'	<0.027	780	<2.1	6.9	60	0.14	9.2	<0.53	9400 J	6.8	4.7	59	6500	5.1	4700 J	180	<5.3	5.6	1500	<2.1	<1.1	290	<5.3	35	20	8.1 J
New Raff 1-Surface	17	10000	<2.1	4.7	100	0.64	<10	<0.52	4000	36	15	2100 J	9100	7500	6000 J	200 J	6.5	33	5000	1.2	<1.0	2100 J	<5.2	11	24	2.5 J
New Raff 1-1'	0.38	3600	<2.2	<2.2	49	0.05	<11	<0.54	7000 J	2.0	1.5	360	1400	3.3	1300 J	19	2.8	<5.4	1200	<2.2	<1.1	290	<5.4	8.0	<8.6	2.4 J
New Raff 1-2'	0.13	5700	<2.2	2.6	45	0.04	<11	<0.54	5300 J	8.1	3.2	450	1200	<3.2	4700 J	39	4.5	5.7	3900	2.2	<1.1	670	<5.4	20	11	2.8 J
New Raff 1-5'	<0.26	6900	<2.0	<2.0	66	0.11	<9.9	<0.50	4100 J	7.4	3.0	68	6700	3.5	3500 J	72	<5.0	4.6	1700	<2.0	<0.99	180	<5.0	34	17	3.4 J
New Raff 1-10'	0.014	11000	<2.1	6.7	80	0.23	6.0	<0.53	11000 J	14	5.7	200	9900	5.0	4000 J	140	<5.3	9.0	2000	<2.1	<1.1	520	<5.3	56	28	3.7 J
New Raff 1-20' (refusal depth)	<0.07	15000	<2.2	7.2	83	0.36	11	<0.54	21000 J	8.3	11	240	7000	3.2	6200 J	260	<5.4	14	2000	<2.2	<1.1	580	<5.4	37	35	6.8 J
Bathtub 1-Surface	0.043	26000	<2.8	<2.8	16	2.0	<14	0.37	4700	7.4	47	5600 J	4900	<4.2	22000 J	550 J	<6.9	35	950	<2.8	<1.4	3600 J	<6.9	9.4	67	2.2 J
Bathtub 1-1'	0.46	15000	<2.5	14	77	0.53	<13	<0.63	8000	15	11	630 J	24000	3.2	10000 J	130 J	<6.3	13	3500	2.4	<1.3	500 J	6.3	40	23	2.9 J
Bathtub 1-2'	0.033	11000	<2.2	9.1	69	0.38	<11	<0.55	7900	14	6.2	460 J	27000	4.9	4900 J	110 J	<5.5	7.5	2700	<2.2	<1.1	1400 J	<5.5	56	25	3.1 J
Bathtub 1-5'	<0.027	11000	<2.0	6.9	72	0.43	7.1	<0.50	14000	16	5.8	360 J	20000	3.7	5200 J	120 J	<5.0	7.2	2200	<2.0	<1.0	500 J	<5.0	65	26	3.4 J
Bathtub 1-10'	0.12	20000	1.5 J	14	95	1.2	13	0.28	10000	12	11	2400 J	20000	5.4	4800 J	260 J	<5.4	11	2400	<2.2	<1.1	370 J	<5.4	36	30	4.0 J
Bathtub 1-12'	0.045	18000	<2.2	8.8	91	1.0	10	<0.54	11000	11	13	1400 J	16000	4.3	5100 J	290 J	<5.4	11	2300	<2.2	<1.1	390 J	<5.4	37	37	4.0 J
Bathtub 1-20'	<0.027	9000	<2.1	4.5	64	0.36	5.8	<0.53	6500	7.6	4.5	72 J	12000	3.8	5200 J	270 J	<5.3	7.5	2200	<2.1	<1.1	380 J	<5.3	31	22	8.1 J
Bathtub 1-30'	<0.026	7600	<2.1	5.3	65	0.30	<10	<0.52	5900	7.9	4.4	60 J	12000	3.4	4800 J	220 J	<5.2	6.2	1200	<2.1	<1.0	640 J	<5.2	31	20	8.1 J
Plant Feed 1-Surface	0.36	17000	<2.1	2.4	24	1.1	5.3	<0.53	27000 J	8.9	34	2200	8500	30	12000	410 J	<5.3	23	1600	<2.1	<1.1	1500	<5.3	14	39	2.9 J
Plant Feed 1-1'	0.45	9700	<2.2	4.8	56	0.31	<11	<0.56	6600 J	15	5.7	370	18000	3.6	7400	77 J	<5.6	10	2900	1.1	<1.1	250	<5.6	34	17	3.2 J
Plant Feed 1-2'	0.060	11000	<2.2	5.6	65	0.45	<11	<0.54	9200 J	8.3	11	650	12000	4.3	4600	210 J	<5.4	8.3	1800	<2.2	<1.1	370	<5.4	31	28	3.6 J
Plant Feed 1-5'	0.016	8900	<2.1	7.1	44	0.34	8.0	<0.52	8100 J	7.4	4.6	82	12000	4.0	5200	230 J	<5.2	6.3	1600	<2.1	<1.0	530	<5.2	34	24	8.1 J
Plant Feed 1-10'	<0.026	7800	<2.0	6.7	87	0.36	7.4	<0.50	6400 J	7.3	3.9	79	11000	4.3	3300	190 J	<5.0	5.0	1400	<2.0	<0.99	1100	<5.0	31	22	8.9 J
Plant Feed 1-20'	<0.027	8100	<2.1	9.7	67	0.38	11	<0.53	13000 J	6.5	4.5	110	11000	3.9	4700	160 J	<5.3	6.0	1600	<2.1	<1.1	1100	<5.3	32	19	9.0 J
Plant Feed 1-27'	<0.027	9300	<2.1	6.0	66	0.37	11	<0.53	7000 J	7.6	5.0	81	12000	4.9	4500	240 J	<5.3	6.2	1700	<2.1	<1.1	1100	<5.3	34	24	8.5 J
Plant Feed 1-30'	<0.028	15000	<2.2	12	100	0.55	21	<0.56	28000 J	9.4	5.9	95	16000	5.0	6600	300 J	<5.6	7.8	3100	<2.2	<1.1	1600	<5.6	39	33	8.5 J
S. Slot-1-Surface	0.58	29000	<2.1	8.2	47	1.9	14	0.50	8300	9.8	67	2700	13000	<3.2	25000	710	<5.3	44	2400	<2.1	<1.1	3200	<5.3	36	78	2.8 J
S. Slot 1-1'	0.033	33000	<2.4	31	170	1.3	85	0.66	33000	18	12	390	30000	11	15000	620	4.1	17	8100	<2.4	<1.2	3400	<6.0	90	69	7.9 J
S. Slot 1-2'	<0.030	30000	<2.4	17	160	1.2	42	0.57	49000	15	11	300	27000	9.6	14000	520	<6.0	14	6200	<2.4	<1.2	3800	<6.0	69	62	8.8 J
S. Slot 1-5'	<0.030	17000	<2.4	10	86	0.72	26	0.36	38000	14	9.1	120	19000	6.5	6800	310	<6.0	10	4400	<2.4	<1.2	2200	<6.0	57	40	9.2 J
S. Slot 1-10'	<0.028	17000	<2.2	5.9	100	0.63	19	<0.56	4500	11	5.9	170	18000	5.1	6300	220	<5.6	10	3800	<2.2	<1.1	2200	<5.6	43	35	8.4 J
S. Slot 1-20'	<0.027	11000	<2.2	6.9	89	0.73	7.6	<0.55	5300	8.3	4.8	350	12000	3.5	5000	150	<5.5	7.2	1700	<2.2	<1.1	360	<5.5	34	20	6.1 J
S. Slot 1-24' (refusal depth)	<0.026	11000	<2.1	1.4	9.5	0.33	<10	<0.62	2900	1.6	2.5	96	2600	<3.1	14000	26	<5.2	5.0	990	<2.1	<1.0	61	<5.2	5.8	5.5	5.0 J
Mega-1-Surface	0.063	43000	<5.7	3.0	26	4.9	<57	0.85	4300	17	98	6100	9700	11	32000	1500	<14	54	<2900	<5.7	<2.9	4400	<14	14	100	2.7 J
Mega-1-1'	0.18	7900	<2.1	7.5	50	0.50	<10	<0.52	5600	9.8	3.8	500	11000	<3.1	5200	79	<5.2	8.3	1900	4.2	<1.0	130	<5.2	38	16	4.0 J
Mega-1-2'	0.18	7800	<2.1	9.8	70	0.30	<10	<0.52	5500	7.4	4.6	260	14000	4.2	3400	170	<5.2	5.8	1500	5.1	<1.0	300	<5.2	34	20	7.8 J
Mega-1-3'	<0.026	7900	<2.1	5.4	60	0.33	6.0	<0.52	5700	7.1	3.6	31	12000	3.6	2900	210	<5.2	4.9	1400	<2.1	<1.0	430	<5.2	34	24	8.7 J
Mega-1-5'	<0.026	7400	<1.9	4.9	55	0.32	6.3	<0.49	5000	6.4	3.3	31	11000	4.0	2700	220	<4.9	4.4								

Table 1  
Validated Soil Sample Results  
Total Metals and pH  
USEPA 6000/7000 Series Methods and 9045C Method  
Anaconda Ponds Assessment  
Metals Concentrations in Milligrams per Kilogram, dry weight  
Samples Collected 7/30/07 - 8/1/07

	Mercury	Aluminum	Antimony	Arsenic	Barium	Beryllium	Boron	Cadmium	Calcium	Chromium (III)	Cobalt	Copper	Iron	Lead	Magnesium	Manganese	Molybdenum	Nickel	Potassium	Selenium	Silver	Sodium	Thallium	Vanadium	Zinc	pH	
2004 USEPA PRG (Residential)*-->	23	76000	31	0.39**	5400	150	16000	37	-	100000	900	3100	23000	400	-	1800	390	-	-	390	390	-	5.2	78	23000	-	
2004 USEPA PRG (Industrial)*-->	310	100000	410	1.6**	67000	1900	100000	450	-	100000	1900	41000	100000	800	-	19000	5100	-	-	5100	5100	-	67	1000	100000	-	
Mega-2-30'	No analytical results. Sample jar broken during shipment to laboratory.																										
Mega-3-Surface	0.15	18000	<2.1	2.5	30	1.5	<11	0.29	3500	13	34	2500 J	11000	<3.2	14000	380 J	<5.3	25	1500	<2.1	<1.1	1600	<5.3	18	43	2.9 J	
Mega-3-1'	0.014	8600	<2.1	5.4	60	0.32	<10	<0.52	4800	12	4.4	81 J	14000	3.6	3500	200 J	2.8	6.2	1600	<2.1	<1.0	280	<5.2	36	23	8.0 J	
Mega-3-2'	<0.026	6600	<2.1	4.3	43	0.24	<10	<0.52	5400	6.5	3.4	45 J	12000	2.6	2800	170 J	<5.2	4.3	1100	<2.1	<1.0	250	<5.2	31	19	8.3 J	
Mega-3-5'	<0.026	5400	<2.1	4.2	44	0.21	<10	<0.52	7300	6.4	2.9	58 J	9600	<3.1	2600	130 J	<5.2	4.7	920	<2.1	<1.0	220	<5.2	26	15	8.7 J	
Mega-3-10'	<0.026	8500	<2.1	6.1	55	0.33	6.4	<0.52	9300	8.6	4.3	81 J	14000	3.3	4100	220 J	<5.2	5.9	1500	<2.1	<1.0	350	<5.2	38	23	8.9 J	
Mega-3-20'	<0.027	14000	<2.2	<2.2	99	1.1	<110	<5.4	5900	11	<22	79 J	17000	<3.3	4500	330 J	<5.4	<5.4	2700	<2.2	<1.1	470	<5.4	42	48	8.6 J	
Mega-3-30'	<0.026	6100	<2.1	4.8	50	0.27	<10	<0.52	3700	5.8	3.5	48 J	12000	2.6	2800	180 J	<5.2	4.1	1100	<2.1	<1.0	460	<5.2	30	20	9.8 J	
Phase 1-1-Surface	0.43	34000	<4.3	<4.3	30	2.6	<22	<1.1	1800	9.7	81	<b>6200 J</b>	5100	<b>470</b>	27000	890 J	<11	50	1000	<4.3	<2.2	3400	<11	8.0	80	2.2 J	
Phase 1-1-1'	0.30	11000	<2.2	6.8	57	0.25	<11	<0.54	5000	7.0	4.7	1100 J	15000	2.9	7900	86 J	3.5	7.6	1800	3.0	<1.1	170	<5.4	33	15	4.0 J	
Phase 1-1-2'	0.083	12000	<2.2	4.9	90	0.40	6.4	<0.54	6400	9.6	4.9	420 J	15000	4.0	4900	210 J	<5.4	7.2	2100	<2.2	<1.1	320	<5.4	40	31	7.7 J	
Phase 1-1-5'	0.022	8700	<2.1	4.3	59	0.33	<11	<0.53	9600	6.9	4.0	70 J	12000	3.1	3800	190 J	<5.3	6.2	1300	<2.1	<1.1	260	<5.3	31	22	8.3 J	
Phase 1-1-10'	<0.026	6200	<2.1	5.8	41	0.38	<10	<0.52	3400	8.8	3.4	26 J	18000	2.7	2500	190 J	<5.2	4.7	1100	<2.1	<1.0	250	<5.2	43	22	8.5 J	
Phase 1-1-15'	0.021	16000	<2.3	10	130	0.59	17	<0.57	26000	12	7.2	78 J	19000	6.2	7000	380 J	<5.7	10	3000	<2.3	<1.1	600	<5.7	51	38	8.5 J	
Phase 1-1-20'	<0.027	11000	<2.1	10	110	0.53	8.3	<0.53	6700	7.4	5.6	100 J	18000	5.4	4600	340 J	<5.3	6.1	2200	<2.1	<1.1	500	<5.3	46	30	8.7 J	
Phase 1-1-28' (refusal depth)	<0.026	11000	<2.1	7.7	98	0.46	15	<0.53	14000	7.7	5.1	100 J	16000	4.5	4900	270 J	<5.3	6.6	2300	<2.1	<1.1	720	<5.3	40	27	9.4 J	
Phase 1 Sediment-1-Surface	0.067	40000	<2.1	<2.1	8.2	2.1	<21	0.41	860	5.7	98	<b>8500 J</b>	3200	55	32000	1000 J	<5.1	48	<1000	<2.1	<1.0	4500	<5.1	4.9	93	2.4 J	
Phase 1 Sediment-1-1'	0.34	11000	1.1 J	6.1	59	0.22	<10	<0.52	4900	7.2	4.9	690 J	14000	4.2	8900	66 J	3.3	7.8	1600	3.2	<1.0	160	<5.2	28	12	3.6 J	
Phase 1 Sediment-1-2'	0.31	9600	<2.1	7.0	50	0.18	<11	<0.53	4900	6.1	3.3	680 J	14000	3.1	7100	49 J	2.7	6.1	1300	3.4	<1.1	120	<5.3	28	10	3.7 J	
Phase 1 Sediment-1-5'	0.015	16000	<2.2	7.3	88	0.64	12	<0.56	14000	12	5.9	74 J	18000	5.7	5900 J	210 J	<5.6	8.5	2700	<2.2	<1.1	1100 J	<5.6	42	35	8.9 J	
Phase 1 Sediment-1-10'	<0.026	7700	<2.1	8.1	59	0.30	5.8	<0.53	13000	6.8	3.7	59 J	11000	3.7	3700 J	240 J	<5.3	5.3	1400	<2.1	<1.1	1000 J	<5.3	31	22	9.6 J	
Phase 1 Sediment-1-20'	<0.028	11000	<2.2	13	68	0.42	13	<0.56	24000	8.3	6.2	76 J	15000	5.1	5500 J	260 J	<5.6	7.9	1900	<2.2	<1.1	1300 J	<5.6	39	28	9.5 J	
Phase 1 Sediment-1-27' (refusal depth)	0.014	12000	<2.2	9.6	61	0.56	14	<0.54	6300	10	7.9	270 J	16000	4.3	4700 J	210 J	<5.4	7.5	2100	<2.2	<1.1	510 J	<5.4	45	28	4.4 J	

J - Estimated concentration or pH value

\*-USEPA Preliminary Remediation Goal (PRG) for Residential/Industrial Soil

\*\* - For the Anaconda Ponds site, which has arsenic concentrations well above the PRG, a potential action level has not yet been determined.

\*\*\* - Mega-1 boring sampling was discontinued after ten-foot depth due to pond liquids infiltrating down-hole.

Results in **bold** exceed either the industrial or residential PRG potential site-specific action level

Table 2  
 Validated Soil Sample Results  
 Total Petroleum Hydrocarbons by USEPA Method 8015B  
 Anaconda Ponds Assessment  
 Milligrams per Kilogram, dry weight  
 Samples Collected 8/1/07

	TPH (as kerosene)	TPH (as motor oil)
Nevada Corrective Action Level→	100	100
Old Raff 1-Surface	<b>75000 J</b>	NF
Old Raff 1-1'	<b>3400</b>	NF
Old Raff 1-2'	<b>7200</b>	NF
Old Raff 1-5'	<b>5200</b>	NF
Old Raff 1-10'	<b>7300 J</b>	NF
Old Raff 1-20'	<b>5000 J</b>	NF
Old Raff 1-23'	<b>7200 J</b>	NF
Old Raff 1-30'	5.0	NF
New Raff 1-Surface	<b>9200 J</b>	<b>5800 J</b>
New Raff 1-1'	22	NF
New Raff 1-2'	5.9 J	NF
New Raff 1-5'	<5.3 UJ	NF
New Raff 1-10'	3.7 J	NF
New Raff 1-20'	<5.4 UJ	NF

Results in **bold** exceed site-specific action level

J - Estimated concentration

UJ - Estimated concentration, non-detected analyte

NF - Not found

Table 3  
Validated Sample Results  
Semivolatile Organic Compounds by USEPA Method 8270D  
Anaconda Ponds Assessment  
Detected Compounds Only  
Micrograms per Kilogram, dry weight (ug/kg)  
Samples Collected 8-1-07

	2-Methyl-naphthalene	1-Methyl-naphthalene	Fluorene	Phenanthrene	Di-n-butyl phthalate	Bis(2-ethylhexyl) phthalate	Di-n-octyl phthalate	Total Tentatively Identified Compounds (as total hydrocarbon)
USEPA PRG (Residential)→	56000 (naphthalene)		2700000	--	6100000	35000	2400000	100000*
USEPA PRG (Industrial)→	190000 (naphthalene)		26000000	--	62000000	120000	25000000	
Old Raff 1-Surface	<11000 R	<11000 R	21000 J	95000 J	<11000 R	11000 J	<11000 R	<b>3200000</b> J
Old Raff 1-1'	600	980	990	1700	<350	<350	<350	<b>980000</b> J
Old Raff 1-2'	440	1200	1300	2300	<350	<350	<350	<b>2400000</b> J
Old Raff 1-5'	<350	<350	400 J	400 J	<350	<350	<350	<b>1800000</b> J
Old Raff 1-10'	370	2700	1200	3100	<360	<360	<360	<b>2200000</b> J
Old Raff 1-20'	1000	2800	1000	1300	<370	<370	<370	<b>1900000</b> J
Old Raff 1-23'	900	3300	1300	1400	<400	<400	<400	<b>3693000</b> J
Old Raff 1-30'	<35 UJ	<35 UJ	<35 UJ	<35 UJ	<35 UJ	<35 UJ	<35 UJ	620 J
New Raff 1-Surface	<1400	<1400	2300 J	9700 J	<1400	1500 J	890 J	<b>2500000</b> J
New Raff 1-1'	<35	<35	<35	<35	34	<35	<35	1820 J
New Raff 1-2'	<35	<35	<35	<35	38	<35	<35	210 J
New Raff 1-5'	<35	<35	<35	<35	30	<35	<35	NF
New Raff 1-10'	<35	<35	<35	<35	<35	<35	<35	NF
New Raff 1-20'	<35	<35	<35	<35	35	<35	<35	NF

\* - Nevada Corrective Action Level

Results in **bold** exceed a potential site-specific action level

J - Estimated concentration

UJ - Estimated reporting limit, non-detected analyte

R - Due to poor surrogate recovery, the reported reporting limit concentration above which the analyte was not found cannot be relied upon.

NF - Not found

Table 4  
Validated Soil Sample Results  
Volatile Organic Compounds by USEPA Method 8260B  
Anaconda Ponds Assessment  
Detected Compounds Only  
Micrograms per Kilogram, dry weight (ug/kg)  
Samples Collected 7/30/07 - 8/1/07

	Trichloro- fluoromethane	Acetone	Ethyl- benzene	m&p- Xylene	o-Xylene	1,3,5- Trimethylbenzene	1,2,4- Trimethylbenzene	Total Tentatively Identified Compounds (as total hydrocarbon)
USEPA PRG (Residential)→	390000	14000000	400000	270000 (total)		21000	52000	100000*
USEPA PRG (Industrial)→	2000000	54000000	400000	420000 (total)		70000	170000	
Old Raff-1-1'	6.3	<18	<2.3	<4.6	<2.3	4.1	2.9	5800 J
Old Raff-1-2'	<2.2	<18	<2.2	<4.4	<2.2	10	5.9	8300 J
Old Raff-1-5'	<2.4	<19	<2.4	<4.7	<2.4	10	3.2	8800 J
Old Raff-1-10'	3.7	15	<2.4	<4.9	1.4	42	14	10000 J
Old Raff-1-20'	2.6	11	<2.3	8.1	4.6	34	55	9400 J
Old Raff-1-23'	4.3	15	1.6	13	7.4	63	100	<b>150000 J</b>
Old Raff-1-30'	<2.3	<19	<2.3	<4.7	<2.3	<2.3	<2.3	340 J
New Raff 1-1'	<2.7	16	<2.7	<5.4	<2.7	<2.7	<2.7	290 J
New Raff 1-2'	<2.7	21 J	<2.7	<5.4	<2.7	<2.7	<2.7	250 J
New Raff 1-5'	<2.6	35 J	<2.6	<5.3	<2.6	<2.6	<2.6	NF
New Raff 1-10'	<2.3	20 J	<2.3	<4.6	<2.3	<2.3	<2.3	NF
New Raff 1-20'	<2.3	<18	<2.3	<4.5	<2.3	<2.3	<2.3	NF

\* - Nevada Corrective Action Level

Results in **bold** exceed a potential site-specific action level

J - Estimated concentration

NF - Not found

Table 5  
Validated Radioactive Parameter Results  
Anaconda Ponds Assessment  
Picocuries per Gram (pCi/g)  
Samples Collected 7/30/07-8/1/07

Sample ID	Gross Alpha by EPA 900.0	Gross Beta by EPA 900.0	Radium-223 by GAM-01	Radium-224 by GAM-01	Radium-226 by EML HASL 300, 4.5.2.3	Radium-226 by GAM-01	Radium-226 by EPA 903.0	Radium-228 by GAM-01	Actinium-228 by EPA 901.1m	Bismuth-212 by GAM-01
SS-01*	5.86 ± 3.33 J	28.9 ± 4.61 J	NF	0.866 ± 0.31	1.06 ± 0.143 J	2.07 ± 0.36	NA	1.14 ± 0.14	NA	1.19 ± 0.20
SS-02*	6.71 ± 3.53 J	23.3 ± 4.45 J	0.258 ± 0.064	0.729 ± 0.28	0.922 ± 0.144 J	1.97 ± 0.34	NA	1.16 ± 0.14	NA	1.13 ± 0.19
SS-03*	9.57 ± 4.23 J	30.3 ± 5.16 J	0.198 ± 0.058	0.517 ± 0.25	1.77 ± 0.231 J	2.27 ± 0.36	NA	0.899 ± 0.11	NA	0.909 ± 0.15
South Slot 1-21.5'	8.37 ± 1.41	7.96 ± 1.86 J	NA	NA	NA	NA	2.68 ± 0.617 J	NA	2.45 ± 0.428	NA
Mega 1-10'	3.79 ± 1.05	4.14 ± 1.81 J	NA	NA	NA	NA	1.64 ± 0.438 J	NA	1.39 ± 0.301	NA
Mega 2B-14'	5.91 ± 1.16	7.66 ± 1.70 J	NA	NA	NA	NA	1.42 ± 0.399	NA	2.01 ± 0.283	NA
Mega 3-19'	5.72 ± 1.30	6.76 ± 1.89 J	NA	NA	NA	NA	2.52 ± 0.532	NA	2.21 ± 0.325	NA
Bathtub-1.5'	16.5 ± 1.91	12.2 ± 1.92 J	NA	NA	NA	NA	2.12 ± 0.528	NA	2.82 ± 0.744	NA
Phase One Sediment-15'	4.13 ± 1.17	2.62 ± 1.67 J	NA	NA	NA	NA	2.60 ± 0.636	NA	1.88 ± 0.330	NA
Phase One-17.5'	5.18 ± 1.29	5.32 ± 1.87 J	NA	NA	NA	NA	2.93 ± 0.670	NA	1.9 ± 0.291	NA
Old Raff 1-17'	5.15 ± 1.15	4.05 ± 1.64 J	NA	NA	NA	NA	1.90 ± 0.469 J	NA	1.65 ± 0.372	NA
New Raff 1-15'	5.17 ± 1.21	5.19 ± 1.69 J	NA	NA	NA	NA	2.06 ± 0.496 J	NA	1.98 ± 0.348	NA
Plant Feed 1-10'	3.94 ± 1.08	4.45 ± 1.64 J	NA	NA	NA	NA	2.81 ± 0.814 J	NA	1.58 ± 0.309	NA

Background samples SS-01 through SS-03 collected August 7, 2007

NF- Not found

J - Validator qualified as estimated

NA - Not analyzed

Table 5  
Validated Radioactive Parameter Results  
Anaconda Ponds Assessment  
Picocuries per Gram (pCi/g)  
Samples Collected 7/30/07-8/1/07

Sample ID	Bismuth-214 by GAM-01	Bismuth-214 by EPA 901.1m	Cesium-137 by GAM-01	Potassium-40 by GAM-01	Potassium-40 by EPA 901.1m	Protactinium- 234m by EPA 901.1m	Uranium-235 by GAM-01	Lead-212 by GAM-01	Lead-212 by EPA 901.1m
SS-01*	1.06 ± 0.12	NA	<0.023	22.3 ± 2.6	NA	NA	0.13 ± 0.022	1.11 ± 0.13	NA
SS-02*	0.969 ± 0.11	NA	0.0572 ± 0.013	25.6 ± 3.0	NA	NA	NF	1.05 ± 0.13	NA
SS-03*	1.17 ± 0.14	NA	0.0177 ± 0.0079	19.2 ± 2.2	NA	NA	0.143 ± 0.022	0.818 ± 0.098	NA
South Slot 1-21.5'	NA	2.26 ± 0.344	NA	NA	45.0 ± 4.71	<10.7	NA	NA	3.11 ± 0.363
Mega 1-10'	NA	1.21 ± 0.212	NA	NA	34.0 ± 3.21	<5.78	NA	NA	1.61 ± 0.175
Mega 2B-14'	NA	1.89 ± 0.345	NA	NA	29.6 ± 3.26	<7.26	NA	NA	1.98 ± 0.203
Mega 3-19'	NA	1.77 ± 0.242	NA	NA	33.7 ± 3.29	<5.89	NA	NA	2.25 ± 0.222
Bathtub-1.5'	NA	2.10 ± 0.338	NA	NA	29.3 ± 3.49	<9.28	NA	NA	2.94 ± 0.275
Phase One Sediment-15'	NA	1.79 ± 0.261	NA	NA	32.5 ± 3.40	<7.27	NA	NA	2.08 ± 0.235
Phase One-17.5'	NA	1.63 ± 0.245	NA	NA	29.4 ± 3.16	14.1 ± 10.6	NA	NA	1.92 ± 0.215
Old Raff 1-17'	NA	1.66 ± 0.265	NA	NA	33.5 ± 3.59	<8.72	NA	NA	1.69 ± 0.193
New Raff 1-15'	NA	1.56 ± 0.239	NA	NA	33.6 ± 3.52	<7.75	NA	NA	2.18 ± 0.242
Plant Feed 1-10'	NA	1.47 ± 0.280	NA	NA	30.2 ± 3.32	<7.27	NA	NA	1.92 ± 0.187

Background samples SS-01 through SS-03 collected August 7, 2007

NF- Not found

J - Validator qualified as estimated

NA - Not analyzed

Table 5  
Validated Radioactive Parameter Results  
Anaconda Ponds Assessment  
Picocuries per Gram (pCi/g)  
Samples Collected 7/30/07-8/1/07

Sample ID	Lead-214 by GAM-01	Lead-214 by EPA 901.1m	Thorium-234 by GAM-01	Thorium-234 by EPA 901.1m	Thallium-208 by GAM-01	Thallium-208 by EPA 901.1m
SS-01*	1.13 ± 0.13	NA	NF	NA	0.358 ± 0.044	NA
SS-02*	1.01 ± 0.12	NA	0.442 ± 0.22	NA	0.325 ± 0.04	NA
SS-03*	1.25 ± 0.15	NA	0.401 ± 0.20	NA	0.256 ± 0.032	NA
South Slot 1-21.5'	NA	2.23 ± 0.269	NA	3.88 ± 2.79	NA	1.95 ± 0.394
Mega 1-10'	NA	1.47 ± 0.160	NA	2.64 ± 1.95	NA	1.38 ± 0.227
Mega 2B-14'	NA	1.86 ± 0.189	NA	2.09 ± 1.64	NA	1.57 ± 0.280
Mega 3-19'	NA	1.79 ± 0.221	NA	2.72 ± 2.29	NA	1.94 ± 0.270
Bathtub-1.5'	NA	2.50 ± 0.273	NA	4.85 ± 2.92	NA	2.33 ± 0.375
Phase One Sediment-15'	NA	1.59 ± 0.256	NA	3.67 ± 3.03	NA	1.60 ± 0.266
Phase One-17.5'	NA	1.77 ± 0.242	NA	2.85 ± 2.16	NA	1.52 ± 0.245
Old Raff 1-17'	NA	1.62 ± 0.234	NA	5.67 ± 1.97	NA	1.27 ± 0.259
New Raff 1-15'	NA	1.95 ± 0.210	NA	3.96 ± 2.44	NA	1.75 ± 0.281
Plant Feed 1-10'	NA	1.45 ± 0.199	NA	3.95 ± 2.21	NA	1.68 ± 0.365

Background samples SS-01 through SS-03 collected August 7, 2007

NF- Not found

J - Validator qualified as estimated

NA - Not analyzed

## **ATTACHMENT 3**

### **Laboratory Data Reporting Sheets**

# **ATTACHMENT 4**

## **Photodocumentation**