March 27, 2019
Project No. 01217344.01

Mr. Cyrus Pai
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Subject: Summary Report, Limited Phase II Site Investigation, Balboa Reservoir, 11 Phelan Avenue, San Francisco, California (APN – 22-3180-005-01), for Reservoir Community Partners, LLC

Dear Mr. Pai and Ms. Collings:

SCS Engineers (SCS) presents this Summary Report to Reservoir Community Partners, LLC (the Client) describing the results of our Limited Phase II Site Investigation at property located at 11 Phelan Avenue, San Francisco, California (the Site, see ***Figure 1***). On August 17, 2018, SCS conducted field activities at the Site in general conformance with our February 8, 2018 Proposal, as subsequently modified on September 9, 2018. The Limited Phase II investigation provided a means to preliminarily investigate subsurface conditions on-Site, prior to the due diligence period conclusion.

SCOPE OF WORK

SCS performed the following tasks in accordance with our February 8, 2018 Proposal:

- Task 1 - Preliminary Field Activities.
- Task 2 - Field Investigation and Laboratory Analysis.
- Task 3 - Summary Report.

Based upon the results of our Phase I ESA (SCS, 2018), SCS recommended a Phase II Investigation at the Site to further evaluate the potential presence of subsurface impacts associated with previous on- or off-Site activities. We recommended advancing temporary borings for the purposes of collecting and analyzing subsurface soil vapor and soil samples. The purpose of the soil vapor survey was to evaluate the potential presence of volatile organic compounds (VOCs) in soil vapor associated with historic Site vicinity land uses. The purpose of the soil samples was to evaluate the condition of shallow soils to help guide possible on- and off-Site reuse or disposal of Site soils.

The work performed by SCS is summarized below.

Task 1 – Preliminary Field Activities

Prior to initiating fieldwork at the Site, SCS prepared a Site-specific Health and Safety Plan (HASP) for use by project personnel. SCS personnel retained a copy of the HASP during all on-Site activities. The HASP described appropriate personnel protective equipment, protocol, and emergency

procedures in the event of injury. The HASP also included a hospital route map, directions, and emergency contacts.

SCS marked the proposed on-Site probe and boring locations, contacted Underground Service Alert (USA) as required by law (USA Ticket number W803801353-00W, February 7, 2018), and retained GPRS, a private utility locator, to perform a subsurface survey to search for potential subsurface obstructions near the proposed boring locations, prior to intrusive activities. GPRS performed their survey on February 8, 2018.

On February 8, 2018, SCS submitted a soil boring permit application to the San Francisco Department of Public Health (SFPDH) and a copy of the soil boring permit is included in ***Appendix A*** to this Report.

SCS also contacted Ms. Stephanie Cushing of the SFDPH regarding compliance with the City and County Health Code Article 22A, otherwise known as the Maher Ordinance (SFHC, 1986, amended 2013) requirements. A copy of our electronic mail (email) confirmation sent to Ms. Cushing on January 26, 2018 is also included in ***Appendix A*** to this Report.

The Phase II fieldwork was originally scheduled to begin on February 12, 2018; however, discussions with the San Francisco Public Utilities Commission (SFPUC) resulted in a decision to delay the field work.

In July and August 2018, BRIDGE and SFPUC reached agreement on the requirements for conducting field work and on August 13, 2018, SCS renewed the USA notification (Ticket number X822502713-00X), confirmed the validity of the SFDPH soil boring permit, and retained GPRS to conduct a second utility survey to clear the proposed soil boring and vapor probe locations. On August 16, 2018, SCS notified Ms. Cushing of the SFDPH of the resumption of on-Site field work.

Task 2 – Field Investigation

The proposed field investigation activities consisted of a two-day field program, with soil vapor sampling and analysis proposed for the first day, and soil sample collection proposed for the second day. Due to a delay in approval for the field work start date, SCS and TEG subsequently revised the equipment staging to allow completion of field work during the same day.

Soil Vapor Investigation

On August 17, 2018, Transglobal Environmental Geochemistry (TEG) of Rancho Cordova, California, a C-57 licensed drilling contractor performed a limited soil vapor survey under the direction of SCS. The soil vapor survey was originally designed to include installing and sampling eight to ten temporary on-Site soil vapor probes (PV-1 through PV-10, see ***Figure 2***); however, based upon field observations, SCS requested that TEG add an 11th location (PV-11). The soil vapor probe construction and soil vapor sample collection procedures followed the July 2015 Advisory – Active Soil Gas Investigations published by the California Environmental Protection Agency (Cal EPA), Department of Toxic Substances Control (DTSC), and the Regional Water Quality Control Board (RWQCB).

TEG installed the soil vapor probes using a truck mounted direct-push drill rig to hydraulically advance 0.5-inch diameter steel probes equipped with detachable drive points. Once the drive point reached the target sample depth of five feet below ground surface (bgs), TEG installed Nylaflow tubing through the top of the geo rod to the total depth of the boring. TEG then removed the geo rod

and placed a hydrated bentonite seal around the tubing exiting the borehole at ground surface to prevent ambient air from entering the sample system.

TEG placed a shroud over each probe location prior to sample collection, expelled a tracer gas (1,1-difluoroethane or DFA) within the shroud and over each sampling system. Detection of the tracer gas in any of the soil vapor samples would indicate possible leakage of surface air into the soil vapor sample thus rendering the analytical results for that sample suspect. TEG then collected soil vapor samples from each soil vapor probe using a calibrated laboratory grade syringe connected to a Luer Lock sampling port at the top end of the tubing. The TEG mobile laboratory technician collected and logged the soil vapor samples onto a chain of custody (COC) form and assigned an individual laboratory identification number.

Once collected, the TEG technician analyzed each soil vapor sample for VOCs including naphthalene, and total petroleum hydrocarbons as gasoline (TPHg) using Environmental Protection Agency (EPA) Method 8260B. TEG also analyzed each sample for fixed gases (oxygen, carbon dioxide, and methane), and 1,1-DFA.

Following completion of vapor sampling, TEG removed each probe and filled each borehole with bentonite, grout, and cold patch asphalt as appropriate to the match existing ground surface material. TEG cleaned all non-dedicated sampling equipment prior to use and between probe locations using a laboratory grade detergent wash and clean water rinse.

Soil Investigation

At the conclusion of the soil vapor sampling work, TEG advanced six borings (P-1 through P-6, ***Figure 2***), each to ten feet bgs. TEG used a direct push Geoprobe® drill rig to advance each boring, collecting a continuous core of soil from each boring at each location. The SCS field staff examined the encountered soils using the Unified Soil Classification System (USCS), and recorded soil descriptions along with other notable sample features, such as field observations of staining, odors, photo ionization detector (PID) readings, and other soil characteristics on field boring logs (***Appendix B***). TEG collected soils in clean acetate sleeves, and SCS collected samples at five depth intervals from each boring. SCS capped each sample with Teflon™ sheets and end caps, labeled and placed each sample into an ice-chilled cooler for transport to McCampbell Analytical Laboratory (McCampbell) under COC protocol. After advancing each soil boring to total depth, TEG decommissioned each boring by backfilling with the surplus soil and grout to ground surface.

SCS used the encountered soil types and soil characteristics (PID readings, odors, staining, etc.) as a means to select soil samples for chemical analysis. SCS requested that McCampbell prepare five composite soil samples, including the 0.75- and 2.5-foot samples from borings P-1, P-2, P-3, and P-4, and the 9.5-foot sample from boring P-5 combined with the 0.75- and 5.0-foot samples from boring P-6. SCS requested analysis of each composite sample for the following:

- Petroleum hydrocarbon range (gas, diesel, and motor oil) by EPA Method 8015modified (diesel and motor oil after first using a silica gel cleanup);
- VOCs by EPA Method 8260B;
- Semi-volatile organic compounds (SVOCs) by EPA Method 8270;
- Organochlorine pesticides (OCPs) and polychlorinated biphenyls (PCBs) by EPA Methods 8081 and 8082;
- California Administrative Manual (CAM) 17 metals;

- Total cyanide by EPA Method SM4500-CN^- CE;
- Total hexavalent chromium by EPA Method 7199; and,
- Soluble lead (by the Waste Extraction Test or WET method).

We requested the sample analytical suite in accordance with the Maher Ordinance requirements, and soluble lead and hexavalent chromium to evaluate possible soils disposal options. SCS did not request analysis of asbestos due to the location of the Site in an area typified by alluvial soils. Upon receipt of the initial analytical results for soils, SCS then requested that McCampbell analyze discrete soil samples from probes P-3, P-5 and P-6 as follows:

- Discrete samples from borings P-3 (0.75 feet and 2.5-feet), P-5 (9.5-feet), and P-6 (0.75- and 5.0-feet) for total hexavalent chromium; and,
- Discrete samples from borings P-5 (9.5-feet) and P-6 (0.75- and 5.0-feet) for analysis of VOCs.

Analytical Results

Soil Vapor Analysis

Table 1 presents the results of the soil vapor sample analysis, and the TEG laboratory analytical report is included in *Appendix C*. None of the eleven soil vapor samples collected and analyzed by TEG in their on-Site mobile laboratory yielded TPHg at or above the corresponding reporting limits (RLs). The sole VOC analyte detected was benzene reported in the sample from location PV-5 at 52 micrograms per cubic meter (µg/m^3), in excess of the recently-revised Environmental Screening Level (ESL) value of 3.2 µg/m^3 for residential land use (RWQCB, 2019).

Neither methane, nor the leak check compound 1,1-DFA were detected at or above the corresponding laboratory RLs in any of the eleven analyzed soil vapor samples. Oxygen was detected at concentrations of 11 to 21 %, and carbon dioxide was detected in four samples at concentrations ranging from 5.4 to 11%.

Due to the lack of leak check compound detected in the analyzed vapor samples, SCS believes the collected samples were valid and not compromised by a sample train leak.

Soil Sample Analysis

Composite Samples

Table 2 presents the results of the composite soil sample analysis and the McCampbell analytical reports are included in *Appendix C*. The composite samples did not yield TPHg, SVOCs, PCBs, or cyanide at or above corresponding RLs. The samples yielded the following analytes:

- TPHd and TPHmo were reported in four of the analyzed samples at respective concentration ranges of 1.1 to 4.0 milligrams per kilogram (mg/kg) and 20 to 110 mg/kg, all well below applicable ESL values for residential or commercial land use;
- The sample from location P-1 yielded Dichlorodiphenyltrichloroethane (DDT) at 0.0003 mg/kg, below the corresponding ESL value (0.00059 mg/kg) for residential land use;
- The composite sample from combined locations P-5 and P-6 yielded tetrachloroethylene (PCE) and vinyl chloride at respective concentrations of 0.00042 mg/kg and 0.0003 mg/kg, below corresponding residential land use ESL values of 0.6 mg/kg and 0.0082 mg/kg. It should be

noted that the vinyl chloride result was flagged by the laboratory due to the presence of vinyl chloride in the associated laboratory method blank;

- Select CAM 17 metals were detected, and with the exception of arsenic, none of the CAM 17 metals were reported above corresponding ESL values for residential land use. The detected arsenic concentrations ranged from 1.5 to 3.2 mg/kg, above corresponding residential and commercial land use ESL values (0.067 and 0.31 mg/kg), but well within values considered to be representative of background concentrations (range of 0.61 to 11 mg/kg) for alluvial soils in the San Francisco Bay Area (Duvergé, 2011); and,
- Hexavalent chromium was detected above the RL in two composite samples (locations P-3 and P-5/P-6) at respective concentrations of 0.35 and 0.31 mg/kg, slightly above the residential land use ESL value of 0.3 mg/kg, but below the corresponding ESL for a construction worker (2.8 mg/kg). Locations P-1 and P-2 also yielded estimated or J-flagged hexavalent chromium detections but all concentrations were below the laboratory RL and below the residential land use ESL value.

None of the analyzed soil samples yielded total cyanide or soluble lead at or above the corresponding RL values of 0.1 mg/kg and 0.1 milligrams per liter (mg/L). None of the analyzed soil samples yielded analytes at or above ten times the soluble threshold limit concentration (STLC) value or the total threshold limit concentration (TTLC) value governing soils disposal in California.

Discrete Soil Samples

The subsequent analysis of discrete soil samples was performed slightly beyond the applicable holding times for hexavalent chromium and VOCs. However, SCS requested the analysis to facilitate our evaluation of the role of sample depth in composite sample analytical results.

As shown on *Table 2*, VOCs were not reported at or above RLs in the analyzed discrete soil samples. Hexavalent chromium concentrations decreased with depth below ground surface. Samples P-3 at 0.75 and 2.5 feet yielded hexavalent chromium at 0.22 mg/kg and 0.17 mg/kg (estimated or J-flagged value). Samples P-5 at 9.5 feet, and P-6 at 0.75 feet and 5.0 feet yielded hexavalent chromium at 0.28, 0.55, and 0.34 mg/kg, two of which exceeded the residential ESL value of 0.30 mg/kg and none of which exceeded the construction worker ESL value of 2.8 mg/kg and commercial ESL of 6.2 mg/kg.

SUMMARY AND CONCLUSIONS

The Site Investigation did not identify the presence of significant residual chemicals in Site soil vapor. Benzene was detected in one soil vapor probe location (PV-5) in the immediate vicinity of a trailer used to store motorcycles used for training at a concentration of 52 µg/m^3, in excess of the recently revised residential land use ESL value. The oxygen concentration in sample PV-5 was 20%. The project development will place approximately five feet of clean fill soil over the current groundsurface in the PV-5 location. This will result in a bio-attenuation zone which reduces the potential for benzene or other petroleum-based constituents to migrate into structures. In the presence of a bio-attenuation zone, the State Water Resources Control Board (SWRCB) Low Threat Closure Policy (LTCP) for petroleum release cases (SWRCB, 2012) allows up to 85,000 µg/m^3 benzene in similar situations, and therefore SCS does not believe the detected benzene concentration in soil vapor warrants mitigation.

The absence of benzene in any of the other ten (10) soil vapor samples collected, the lack of other VOCs, including petroleum constituents (TPHg, ethylbenzene, toluene, xylenes or naphthalene), in

the soil vapor samples and the absence of VOCs at or above RLs in any of the discrete soil samples analyzed, including P-5, suggests a very limited, localized residual impact.

Arsenic was detected in each composite soil sample at concentrations ranging from 1.5 to 3.2 mg/kg, above the residential land use ESL value, but well within the range considered to represent background conditions for alluvial soils in the San Francisco Bay Area (Duvergé, 2011).

Hexavalent chromium was detected in composite soil samples at concentrations slightly above a residential land use ESL value in two locations including the berm borings P-5 and P-6, and from location P-3 located at the southeastern edge of the lower lying portion of the Site. The total chromium values reported for these same locations were not elevated. SCS then requested analysis of discrete soil samples from locations P-3, P-5 and P-6 for hexavalent chromium, and from P-5 and P-6 for VOCs. Although slightly beyond recommended hold times, the sample analysis indicated hexavalent chromium concentrations decrease with depth below ground surface. Although the hexavalent chromium concentrations in the discrete soil samples slightly exceeded residential ESL values at three locations, the values were below the ESL value used for construction worker protection.

This preliminary soils evaluation identified the limited presence of low levels of select constituents such as DDT, PCE, vinyl chloride, TPHd, TPHmo, and metals, all below the residential land use ESL value.

The proposed high-density residential development project consists of three primary elements:

- Multiple story residential buildings;
- Paved parking and hardscaped walkways; and,
- Community-accessible parks and gardens.

Although slightly in excess of residential ESL values in limited locations, SCS does not consider the presence of hexavalent chromium concentrations in shallow Site soils a risk to future Site occupants. First, hexavalent chromium is a transient form of chromium which converts to the more stable trivalent chromium in the presence of oxygen. Thus, those soils containing hexavalent chromium at concentrations already very close to the residential ESL value are expected to be rendered inert when exposed to ambient conditions.

Further, Site development plans call for the presence of hard scape over the majority of the Site, rendering the potential for exposure of residents to hexavalent chromium-containing soils further unlikely. Community parks and gardens will be developed using a layer of clean fill soil, thereby eliminating a potential exposure pathway.

Based upon these facts, SCS recommends the Client prepare a Site Mitigation Plan (SMP) for future Site work. The SMP should describe protocols to evaluate and safely handle Site soils during construction and on-going Site maintenance following construction. The SMP should include a description of sampling and analysis of re-used soil to ensure that soils placed across the Site in planned unpaved or accessible development areas are acceptable and that unacceptable risk for exposure to the conditions of limited environmental concern are not present.

Furthermore, in fulfillment of one of the soil boring permit conditions and the applicable portions of the Maher Ordinance, we recommend providing this Report and the SMP to the SFDPH, followed by a meeting to discuss the proposed approach.

CLOSING

We appreciate the opportunity to assist Reservoir Community Partners, LLC. with this project and trust this Report meets with your approval. Should you have any questions regarding this Report, please call the undersigned at (925) 426-0080.

Sincerely,

Ted Sison, REPA, CPSWQ, QSD
Senior Project Scientist
SCS ENGINEERS

James G. Ritchie, PG, QSD
Vice President
SCS ENGINEERS

PROFESSIONAL GEOLOGIST
JAMES G. RITCHIE
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Expires 5-31-20
STATE OF CALIFORNIA

The following attachments complete this Report:

Table 1 – Soil Vapor Analytical Results
Table 2 – Soil Sample Analytical Results
Figure 1 – Site Location
Figure 2 – Site Plan Showing Soil Vapor and Soil Boring Locations
Appendix A – Permits and USA Tickets
Appendix B – Soil Boring Logs
Appendix C – Laboratory Analytical Results
Appendix D - Photographs

REFERENCES

California Code of Regulations (CCR), Title 22, Chapter 11, Article 3, Characteristics of Hazardous Waste.

City and County of San Francisco Health Code (SFHC), 1986, Article 22A (Maher Ordinance), Amended 2013.

Department of Toxic Substances Control (DTSC) 2011, Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air (Vapor Intrusion Guidance, VIG), updated October.

Duvergé, Dylan Jacques, 2011, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, Masters of Science Thesis, San Francisco State University, December.

Regional Water Quality Control Board (RWQCB), 2019, Environmental Screening Levels, Revised, January 24 (version 4).

SCS Engineers (SCS), 2018, Phase I Environmental Site Assessment, Balboa Reservoir, 11 Phelan Avenue, San Francisco, California, for BRIDGE Inc., February 8.

State Water Resources Control Board (SWRCB), 2012, Low-Threat Underground Storage Tank Case Closure Policy (LTCP), August 17.

TABLES

Table 1
Soil Vapor Sample Analytical Results
Petroleum Hydrocarbons and VOCs
11 Phelan Avenue, San Francisco, California
for Reservoir Community Partners, LLC.

Sample Location	Depth (ft bgs)	Purge Volumes	Sample Date	TPHg	VOCs												Atmospheric Gas		
					Benzene	Toluene	Ethylbenzene	Xylenes (m, p)	Xylene (o)	PCE	TCE	Naphthalene	cis-1,2 DCE	trans-1,2-DCE	Vinyl Chloride	1,1-Difluoroethane (leak check)	Methane	Oxygen	Carbon Dioxide
				µg/m^3													ppmV	percent by volume	
PV-1	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	21	ND<1.0
PV-2	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	21	ND<1.0
PV-3	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	21	ND<1.0
PV-4	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	21	ND<1.0
PV-5	5	3	8/17/2018	ND<10,000	**52**	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	20	ND<1.0
PV-6	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	21	ND<1.0
PV-7	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	11	11
PV-8	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	16	5.4
PV-9	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	15	6.0
PV-10	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	14	7.2
PV-11	5	3	8/17/2018	ND<10,000	ND<45	ND<200	ND<100	ND<200	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<9	ND<10,000	ND<1,000	21	ND<1.0
Residential ESL Value*				20,000	3.2	10,000	37	3,500		15	16	2.8	280	2,800	0.32	NE	NE	NE	NE
Commercial ESL Value**				83,000	14	44,000	160	15,000		67	100	12	1,200	12,000	5	NE	NE	NE	NE

Notes:

TPHg = total petroleum hydrocarbons as gasoline; analyzed using Method 8260B

VOCs = volatile organic compounds; analyzed using Method 8260B. Analytes not listed were not detected at or above reporting limits.

PCE= tetrachloroethylene

TCE= trichloroethylene

µg/m^3 = micrograms per cubic meter

* =Resdiential ESL = Subslab/Soil Gas Vapor Intrusion, Residential, San Francisco Bay Regional Water Quality Control Board, January 2019

** = Commercial ESL = Subslab/Soil Gas Vapor Intrusion, Commercial, San Francisco Bay Regional Water Quality Control Board, January 2019

NE = No ESL Value established.

** = See Figure 2 for Sample Locations

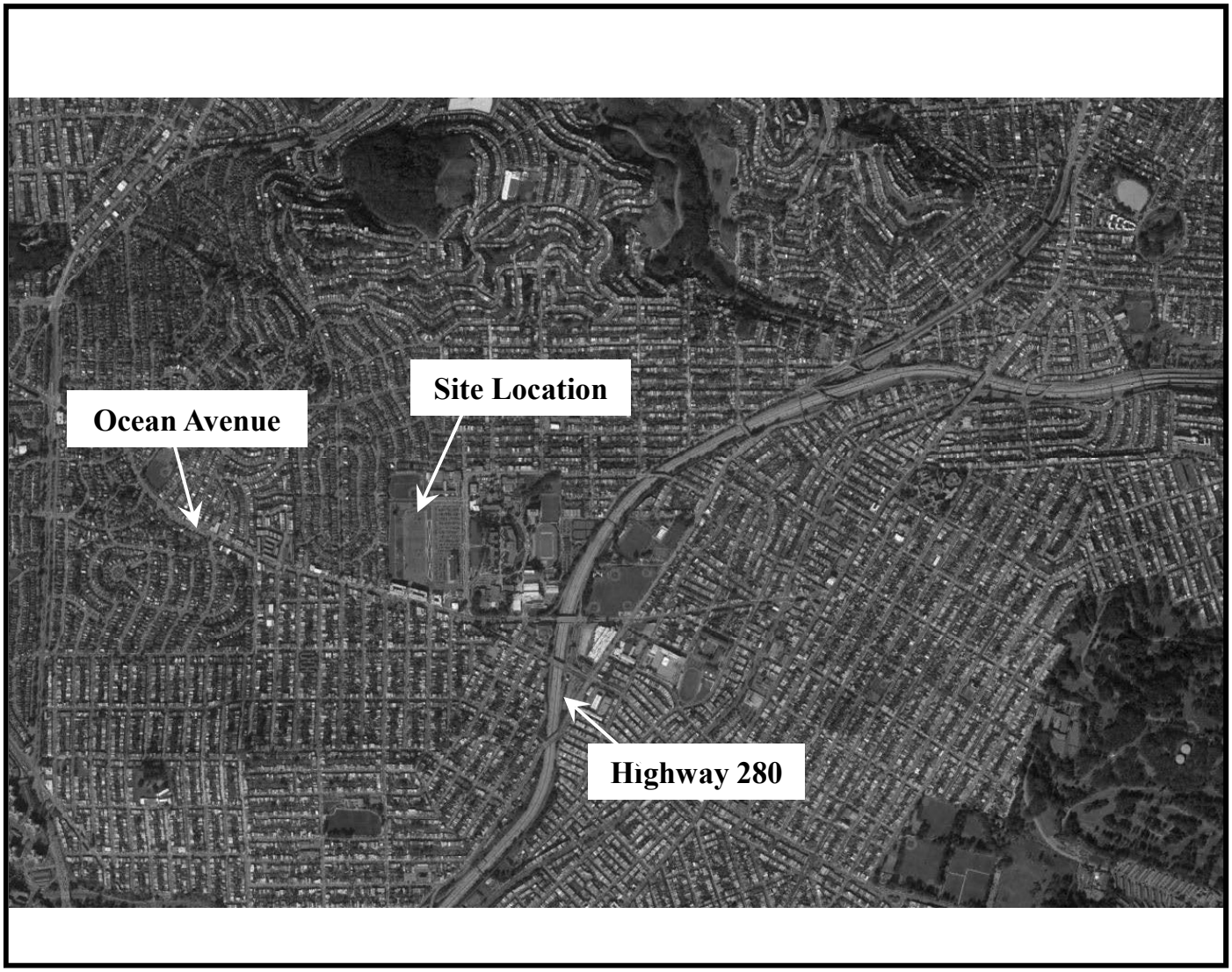
Bold = Exceeds Residential ESL

Table 2
Composite and Discrete Soil Sample Analytical Results
11 Phelan Avenue, San Francisco, California
for Reservoir Community Partners, LLC.

Sample Location	Sasmple Type (Composite = C or Discrete =D)	Depth (ft bgs)	Sample Date	TPHg	TPHd	TPHmo	OCPs + PCBs*****	VOCs****	SVOCs	Metals*																		
										Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Hexavalent Chromium	Cyanide	Lead **	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
				mg/kg																								
P1 0.75,2.5	C	0.75, 2.5	8/17/2018	ND<1.0	4.0	79	ND<0.005	ND<0.005	ND	ND<0.5	1.5	44	ND<0.5	ND<0.25	48	6.6	8	0.12J	ND<0.1	2.3 / ND<0.10	ND<0.050	ND<0.50	32	ND<0.5	ND<0.50	ND<0.5	33	25
P2 0.75, 2.5	C	0.75, 2.5	8/17/2018	ND<1.0	11	110	ND<0.005	ND<0.025	ND	ND<0.5	2.5	37	ND<0.5	ND<0.25	54	8.4	5.6	0.16J	ND<0.1	2.2 / ND<0.10	ND<0.050	ND<0.50	31	ND<0.50	ND<0.50	ND<0.50	38	20
P3 0.75, 2.5	C	0.75,2.5	8/17/2018	ND<1.0	1.1	25	ND<0.005	ND<0.005	ND	ND<0.5	3.2	55	ND<0.5	ND<0.25	59	8.4	9.8	**0.35**	ND<0.1	2.5 / ND<0.10	ND<0.050	ND<0.50	40	ND<0.50	ND<0.50	ND<0.50	61	26
P3 0.75	D	0.75	8/17/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.22H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P3 2.5	D	2.5	8/17/2018	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.17HJ	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P4 0.75, 2.5	C	0.75, 2.5	8/17/2018	ND<1.0	ND<1.0	ND<5.0	ND<0.005	ND<0.005	ND	ND<0.5	1.9	46	ND<0.5	ND<0.25	47	5.5	7.3	ND<0.10	ND<0.1	2.8 / ND<0.10	ND<0.050	ND<0.50	19	ND<0.50	ND<0.50	ND<0.50	40	20
P5 9.5 / P6 0.75, 5	C	9.5/ 0.75, 5	8/17/2018	ND<1.0	2.0	20	ND<0.005	ND<0.005	ND	ND<0.5	2.8	140	ND<0.5	ND<0.25	58	8.2	9.8	**0.31**	ND<0.1	2.9 / ND<0.10	ND<0.05	0.53	35	ND<0.50	ND<0.50	ND<0.50	50	26
P5 9.5	D	9.5	8/17/2018	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.28H	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P6 0.75	D	0.75	8/17/2018	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.55H**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P6 5	D	9.5/ 0.75, 5	8/17/2018	NA	NA	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	**0.34H**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
TTLC Value (and STLC Value where appropriate)* **				NE+D2A22:M25	NE	NE	varies	varies	NE	500	500	10000 (100)	75	100 (1)	2,500 (5.0)	8,000	2,500	500	NE	1,000 (5.0)	20	3,500	2,000 (20)	100	500	700	2,400	5,000
Residential ESL/Commercial ESL				430/2,000	260/1,200	12,000/180,000	varies	varies	NE	11/160	0.067/0.31	15,000/220,000	1,600/6,900	910/4,000	120,000/1,800,000	420/1,900	3,100/47,000	0.3/6.2	5.5/25	80/320	13/190	390/5,800	820/11,000	390/5,800	390/5,800	0.78/12	390/5,800	23,000/350,000

Notes:
VOCs = volatile organic compounds; analyzed using EPA Method 8260B.
SVOCs = semi-volatile organic compounds; analyzed using EPA Method 8270C
Resdiential/Commercial Values, Direct Exposure. Environmental Screening Levels, San Francisco Bay Regional Water Quality Control Board, January 2019
Value is shown in **bold** if in excess of corresponding ESL value.
H = sample out of holding time, J = reported value is an estimated value.
mg/L = milligrams per liter
mg/kg = milligrams per kilogram
NE = Not Established; NA = Not Analyzed; ND = Not Detected above noted reporting limit
ft bgs = feet below ground surface
See Figure 2 for sample locations.
* Metals analysis included CAM 17 suite.
**Values shown are Lead (mg/kg)/ Lead STLC (mg/L)
Total Threshold Limit Concentraton (TTLC) and Soluble Threshold Limit Concentration (STLC) values. Value is **bolded** if in excess of TTLC, and ***bold italicized if in excess of ten time the STLC value.
**** The following VOCs were detected (mg/kg), none of which exceeded applicable screening values:
P5 9.5 & P6 0.75, 5= Tetrachloroethylene 0.00042 Vinyl Chloride: 0.0003
*****Organochlorine Pesticides + PCBs detected (mg/kg)
P1 0.75, 2.5 p,p-DDT:0.00030

FIGURES



Source: Google Earth Pro 2017

SCS ENGINEERS
Environmental Consultants
And Contractors

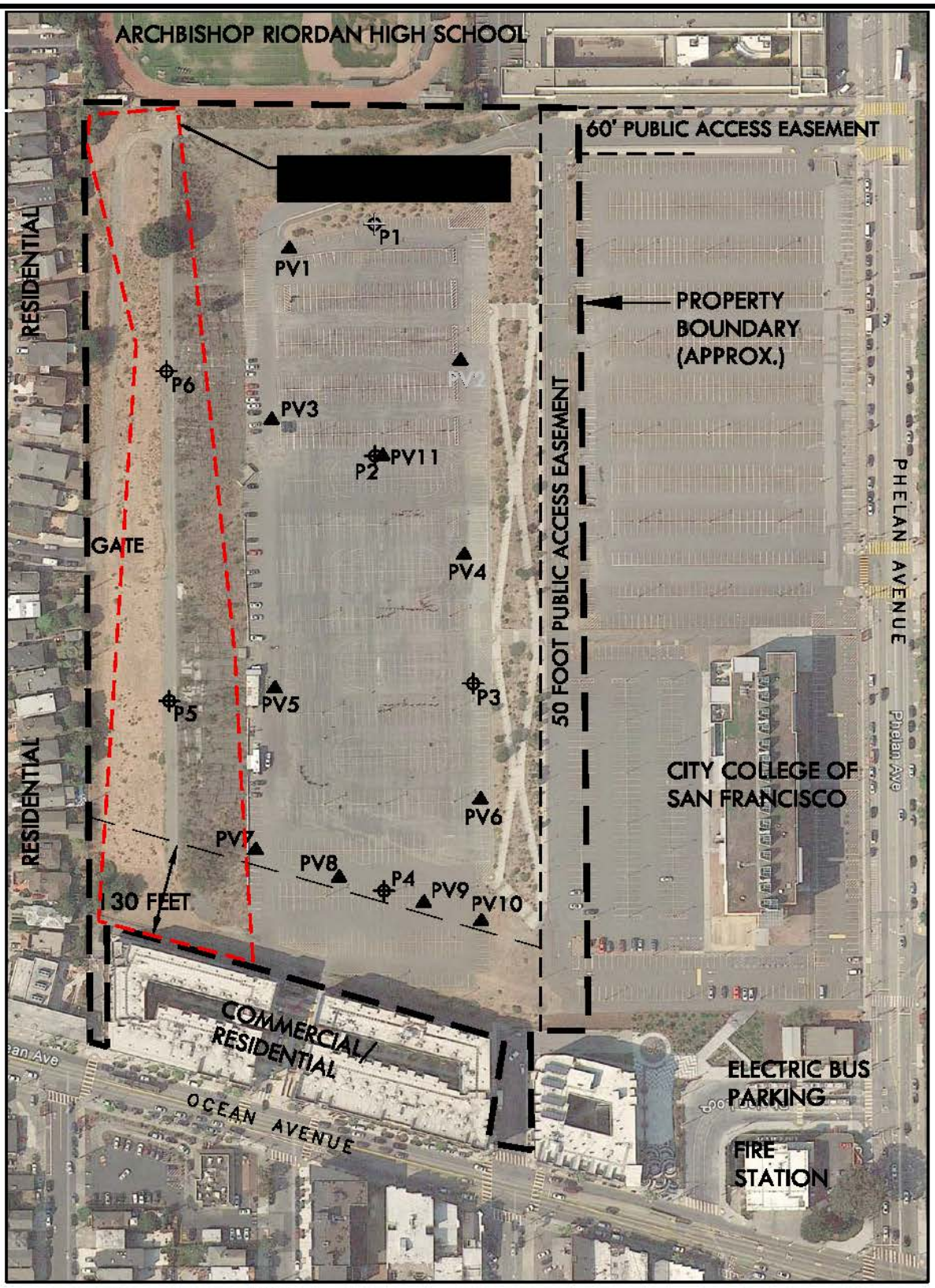
7041 Koll Center Parkway,
Suite 135
Pleasanton, CA 94566
Ph: (925) 426-0080
Fax: (925) 426-0707

PROJECT NO: 01217344.00		CHECKED BY:
DESIGNED BY: AIG	SCALE: None	APPROVED BY:
DRAWN BY: AIG	DATE: 12/2017	FILE: Figure 1.dwg

SITE VICINITY MAP

Balboa Reservoir
South San Francisco, California

Figure 1



200 0 200

APPROXIMATE SCALE IN FEET

SCS ENGINEERS ENVIRONMENTAL CONSULTANTS 7041 KOLL CENTER PARKWAY SUITE 135 PLEASANTON, CALIFORNIA PH. (925) 426-0080 FAX. (925) 426-0707	SHEET TITLE: SITE PLAN		SCALE: AS SHOWN
PROJ. NO.: 01217344.01 / DWN. BY: TMS/JM / ACAD FILE: F2-BERM CUT.dwg	PROJECT TITLE: 11 PHELAN AVENUE SAN FRANCISCO, CALIFORNIA		FIGURE NO.: 2
DATE: 9/26/2018 / CHK. BY: JR / APP. BY: JR			

APPENDIX A

PERMITS AND USA TICKETS

Ritchie, Jim

From: Ritchie, Jim
Sent: Monday, March 5, 2018 1:10 PM
To: Justin Lai
Subject: FW: USA North 811 Confirmation for Ticket W803801353-00W

Justin
This is a copy of the USA North Ticket called in for Balboa Reservoir.
Jim

From: notification@usan.org [mailto:notification@usan.org]
Sent: Wednesday, February 7, 2018 2:52 PM
To: Ritchie, Jim <JRitchie@scsengineers.com>
Subject: USA North 811 Confirmation for Ticket W803801353-00W

```
EMLCFM 01756 USANW 02/07/18 14:51:36 W803801353-00W NORM NEW POLY LREQ

Message Number: W803801353 Rev: 00W Received by USAN at 14:44 on 02/07/18

Work Begins:    02/12/18 at 07:00   Notice: 022 hrs      Priority: 2
Night Work:     Weekend Work:

Expires: 03/07/18 at 23:59   Update By:    03/05/18 at 00:00

Caller:         JAMES RITCHIE
Company:        SCS ENGINEERS
Address:        7041 KOLL CENTER PKWY, SUITE 135
City:           PLEASANTON                    State: CA Zip: 94566
Business Tel:   925-426-0080                  Fax:
Email Address:  jritchie@scsengineers.com

Nature of Work: VERTICAL BORING FOR SOIL & VAPOR SAMPLES
Done for:       BRIDGE HOUSING                Explosives:
Foreman:        IAN
Cell Tel:       858-248-9402
Area Premarked: Y   Premark Method: WHITE PAINT
Permit Type:    HEALTH                        Number: PENDING
Vac / Pwr Equip Use In The Approx Location Of Member Facilities Requested: N
Excavation Enters Into Street Or Sidewalk Area: N

Location:
Street Address: OCEAN AVE
  Cross Street: PHELAN AVE

AT A PT 250' NW OF INTERSECTION OCEAN AVE & PHELAN AVE GO 1000' N & FROM SAME
BEGIN PT GO 500' W TO INCLUDE ENTIRE AREA WITHIN (LOCATED IN THE PARKING LOT
AREA)

Place: SAN FRANCISCO                County: SAN FRANCISCO        State: CA

Long/Lat Long: -122.451639 Lat:  37.722520 Long: -122.455840 Lat:  37.728375

Sent to:
COMSFO = COMCAST-SAN FRANCISCO        CTYSF2 = CITY SAN FRANCISCO WTR
CTYSF4 = CITY SFO HEAT/PWR/LIGHT      CTYSFO = CITY SAN FRAN PRKG & TRF
```

MUNUTL = MUNI OVERHEAD LINES DEPT
PACBEL = PACIFIC BELL
PGESFO = PGE DISTR SAN FRANCISCO
WAVBSF = WAVE BROADBAND-SF

Ritchie, Jim

From: Maranhas, Natasha
Sent: Monday, August 13, 2018 5:17 PM
To: Ritchie, Jim
Subject: FW: USA North 811 Confirmation for Ticket X822502713-00X

From: notification@usan.org <notification@usan.org>
Sent: Monday, August 13, 2018 5:17 PM
To: Maranhas, Natasha <NMaranhas@scsengineers.com>
Subject: USA North 811 Confirmation for Ticket X822502713-00X

```
EMLCFM 04639 USANX 08/13/18 17:16:32 X822502713-00X SHRT NEW POLY LREQ

Message Number: X822502713 Rev: 00X Received by USAN at 17:06 on 08/13/18

Work Begins:    08/15/18 at 07:00   Notice: 010 hrs      Priority: 1
Night Work:     Weekend Work:

Expires: 09/10/18 at 23:59   Update By:    09/06/18 at 00:00

Caller:         NATASHA MARANHAS
Company:        SCS ENGINEERS
Address:        7041 KOLL CENTER PKWY, SUITE 135
City:           PLEASANTON                  State: CA Zip: 94566
Business Tel:   925-426-0080                Fax:
Email Address:  NMARANHAS@scsengineers.com

Nature of Work: VERTICAL BORING FOR SOIL SAMPLES
Done for:       BRIDGE HOUSING              Explosives:
Foreman:        IAN
Cell Tel:       858-248-9402
Area Premarked: Y   Premark Method: WHITE PAINT
Permit Type:    HEALTH                      Number: WTR6867
Vac / Pwr Equip Use In The Approx Location Of Member Facilities Requested: N
Excavation Enters Into Street Or Sidewalk Area: N

Location:
Street Address: PHELAN AVE
  Cross Street: OCEAN AVE

(AS A CROW FLIES) FROM 250' NW OF INTERSECTION OF  PHELAN AVE & OCEAN AVE GO
1000' N & FROM SAME BEGIN PT GO 500' W INCLUDE ALL AREA WITHIN

Place: SAN FRANCISCO                County: SAN FRANCISCO        State: CA

Long/Lat Long: -122.452523 Lat:  37.722531 Long: -122.455641 Lat:  37.726467

Sent to:
COMSFO = COMCAST-SAN FRANCISCO        CTYSF2 = CITY SAN FRANCISCO WTR
CTYSF4 = CITY SFO HEAT/PWR/LIGHT      CTYSFO = CITY SAN FRAN PRKG & TRF
MUNUTL = MUNI OVERHEAD LINES DEPT     PACBEL = PACIFIC BELL
PGESFO = PGE DISTR SAN FRANCISCO      WAVBSF = WAVE BROADBAND-SF
```

Ritchie, Jim

From: Ritchie, Jim
Sent: Friday, January 26, 2018 2:49 PM
To: 'stephanie.cushing@sfdph.org'
Cc: 'Justin Lai'
Subject: Follow Up on Conversation Balboa Reservoir
Attachments: 0478_001.pdf

Stephanie
Thank you for taking the time to talk today. Congratulations on being the Leader of the Department (I think?).

Our client, BRIDGE Housing/Avalon Bay, was selected by the City to redevelop the former Balboa Reservoir for housing and recreational uses.

We are finishing a Phase I that does not indicate past industrial use (dog racing, temporary post World War II vet/student housing, an unused reservoir, and a parking lot), though the Site is within a Maher Area per the SFDPH Map.

Our primary recommendations are to test soil berms and at grade soils for disposal purposes in the event the development exports soils, and to test soil vapor due to historic dry cleaners along Ocean Avenue - no documented releases, and only potential concern associated with solvent migration in vapor phase along utility corridors.

We would like to proceed with the testing (with permits from Robert Dumar) on February 9 to 12, and just wanted to confirm that you are OK with our proceeding.

I have attached a map that shows the approximate soil and soil vapor sample locations. We would likely confine soil testing to the upper 10 feet, and soil vapor to the upper five feet.

Please let us know if you have any questions or concerns, and thank you for your help.

Best
Jim

James G. Ritchie, P.G., QSD
Project Director
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
Tel: 925-426-0080 x 3313
Cell: 650-995-3312
jritchie@scsengineers.com
www.scsengineers.com

Ownership Makes a Difference!

General Engineering Contractor
License No. A 749678 - Haz Certification

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RECEIVED

FEB 08 2018

ENVIRONMENTAL HEALTH BRANCH

City and County of San Francisco
DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH

Application for Monitoring Well Construction/Destruction or Soil Borings

Application Date: 02/06/2018 Starting Date: 02/12/2018 Completion Date: 02/13/2018

Job Address/Location: Balboa Reservoir, San Francisco CA (APN 22-3180-005-01)

To be completed by Owner, Consultant or Driller

Property Owner	Well Owner (If Different)	Consultant/Engineer & Geologist Name
SFPUC	BRIDGE Housing	SCS Engineers/James Ritchie
Address	Address	Address
525 Golden Gate Avenue, 10th Floor	600 California Street, Suite 900	7041 Koll Center Parkway, #135
City, State, Zip	City, State, Zip	City, State, Zip
San Francisco, CA 94102	San Francisco, CA	Pleasanton, CA 94566
Telephone Number	Telephone Number	Telephone Number
(415) 487-5210	(415) 321-3521	(650) 995-3312
Fax Number	Fax Number	Fax Number (925) 426-0707
		Email jritchie@scsengineers.com

Please indicate **Type and Number** of Proposed Wells/Borings

Geotechnical Investigation:
- ☐ Exploratory Wells/borings
- ☐ Cathodic Wells
- ☐ Cone Penetrometer Test
- ☐ Shallow Anodes
- ☐ Other: _____

Environmental Investigation:
- ☒ Exploratory borings
- ☐ Water/Vapor Extraction Wells
- ☐ Hydropunch
- ☐ LOP Workplan

Monitoring Wells Construction:
- ☐ Chemical Leaks
- ☐ Compliance Well
- ☐ Baseline Study
- ☐ Well Destruction
- ☐ LOP Workplan

Topographic Features – Well to be constructed:

☐ In a Public Sidewalk ☐ In a Public Road ☒ On Private Property ☐ On City Property

Construction Specifications:

Diameter of Well Casing: N/A Annular Seal Depth: N/A

Gauge of Casing: N/A Annular Seal Material: N/A

Casing Depth: N/A Other Information:

Destruction Specifications: Well Diameter: 2 inch borings Approximate Depth: 5 and 10 feet

Materials and Procedures to be Used: Approximately 8 soil vapor probes to 5 feet bgs, grouted upon completion, and approximately 8 soil borings to 10 feet bgs, grouted upon completion.

Well Location: On the following site plan accurately draw the well location. (Recommend Assessor's Map)

1. Sketch well location to scale, show dimensions to nearest foot.
2. Show a minimum of two dimensions at right angles. Dimensions shall be from the centerline of the closest named street, road or highway.
3. Show location of any existing wells.

Please see attached map for proposed boring locations.

Certification by Well Owner/Agent or Driller/Agent:
I certify the information above is correct to the best of my knowledge. I certify that the well will be constructed in compliance with the conditions this permit, the San Francisco Health Code and, if applicable, the Hazardous Materials Permit and Discloser Ordinance of the City/County. It is my responsibility as the responsible party to notify this Section of any changes in the purpose of the well from that which is indicated on this application form.

If proposed well is to meet compliance with a Hazardous Materials Permit & Disclosure Ordinance, has the Hazardous Materials Unified Program been contacted? ☒ Yes ☐ No

TEG 11350 Monier Park Place, Rancho Cordova, CA 95742 Name and Address of Well/Driller Company		706568 C-57 Driller's License Number
Signature of Responsible Professional (No substitution of Signature will be accepted)	01/07/2018 Date	PG 4974 Civil Engineer Registratino Number or Engineering Geologist Certificate Number

Email to whom the approved Application should be sent: jritchie@scsengineers.com

Based on information on the application and attachment(s) hereto (if any) and subject to approval noted below, permission is hereby granted to commence the described project. Permission to start may be withheld until a field check verifies all statements made on application by Permittee and is also subject to any "General" and "Special" conditions attached.

For Department of Public Health Office Use Only

Project Number: 68667 Date Approved 2/9/18

Number of Wells: Ø Number of Soil Borings: ~8 + ~8 SVP's

This project to construct/destruct is **approved** ☑
This project to construct/destruct is **disapproved** ☐

Inspector

SAN FRANCISCO DEPARTMENT OF PUBLIC HEALTH
ENVIRONMENTAL HEALTH BRANCH
1390 Market Street, Suite 210, San Francisco, CA 94102
www.sfdph.org/dph/EH/
Phone: (415) 252-3800 Fax: (415) 252-3842

WATER PROGRAM

Receipt Number: **WTR6867**

Date: 2/9/2018

Received From: SCS Engineers

Depositor Address: 3900 Kilroy Airport Way, Ste 100
Long Beach, CA 90806-6816

Fee Type	Sub-Object No.	Amount	Check #
Application Fee	20110	$376.00	305308
Deposit	63540	$454.00	305308
	TOTAL PAYMENT	**$830.00**	

Project Number: 6867

Project Location: 11 Phelan Ave (Balboa Reservoir)
San Francisco, CA 94112

Payment Received by: Robert Demarr

HD/Program: Water GF

Notes:

Environmental Borings & Soil Vapor Probes

APPENDIX B

SOIL BORING LOGS

SCS ENGINEERS

• 11 Phelan Avenue • San Francisco, CA 94108 •

Boring Log

Project: Balboa Reservoir	Drilling Method: Direct Drill Push	Total Depth: 10'
Project No: 01217344.01	Drilling Company: TEG	Screen:
Project Task: 1	Driller:	Initial Water:
Start Date: 8/17/18	Field Geologist: Natasha Marquez	Final Water:
Date Completed: 8/17/18		

Depth (fbgs)	Sample	Well Construction	PID (ppmv)	USCS	Lithologic Description
0					Paved asphalt
			0.2	ML	Yellow, Brown. Fine grained Sandy Silt, loose, damp.
			0.2		Light Yellow, Brown, Fine-grained Sandy Silt, loose, damp.
5	P1		0.2	SM	Light Yellow, Brown, Fine-grained Sandy Silt, Loose. Damp.
			0.3		Yellow, Brown, Fine grained, Sandy Silt, Loose, Damp.
10			0.2		Yellow, Brown, fine grained Sandy Silt, Loose, Damp.

SCS ENGINEERS

• 11 Phelan Avenue • San Francisco, CA 94108 •

Boring Log

Project: Balboa Reservoir	Drilling Method: Direct Drill Push	Total Depth: 10'
Project No: 01217344.01	Drilling Company: TEG	Screen:
Project Task: 1	Driller:	Initial Water:
Start Date: 8/17/18	Field Geologist:	Final Water:
Date Completed: 8/17/18		

Depth (fbgs)	Sample	Well Construction	PID (ppmv)	USCS	Lithologic Description
0					Paved Asphalt
			0.2	ML	Orange. Brown. Fine grained Sandy Silt. Loose. Damp.
			0.2		Layers of dark gray Sandy Silt horizons.
Change					Orange. Brown. Fine grained Sandy Silt, loose, damp.
5			0.2		Yellow Brown. Fine grained Sandy Silt, Loose. Damp. Some black grains.
	P2				Grades with increasing Sand decreasing Silt
			0.2	SM	Yellow. Brown. Fine grained Sandy Silt. Loose. Damp
10			0.2		light Yellow Brown. fine grained Sandy Silt, loose. Damp.

SCS ENGINEERS

• 11 Phelan Avenue • San Francisco, CA 94108 •

Boring Log

Project: Balboa Reservoir	Drilling Method: Direct Drill Push	Total Depth: 10'
Project No: 01217344.01	Drilling Company: TEG	Screen:
Project Task: 1	Driller:	Initial Water:
Start Date: 8/17/18	Field Geologist:	Final Water:
Date Completed: 8/17/18		

Depth (fbgs)	Sample	Well Construction	PID (ppmv)	USCS	Lithologic Description
0					Paved asphalt
			0.1	ML	Dark Orange Brown. Fine grained Sandy Silt. Damp. Loose.
			0.2		Dark orange. Brown. Fine grained. Sandy Silt. Damp. Loose.
5	P3		0.1	SM	Light orange. ~~Orange~~ Brown. Fine grained Sandy Silt. Damp. Loose.
			0.1	ML	Yellow. Brown. Fine grained Sandy Silt. Damp. Loose.
10			0.0		Darker yellow Brown. Fine grained Sandy Silt. Damp. Loose.

SCS ENGINEERS

• 11 Phelan Avenue • San Francisco, CA 94108 •

Boring Log

Project: Balboa Reservoir	Drilling Method: Direct Drill Push	Total Depth: 10'
Project No: 01217344.01	Drilling Company: TEG	Screen:
Project Task: 1	Driller:	Initial Water:
Start Date: 8/17/18	Field Geologist:	Final Water:
Date Completed: 8/17/18		

Depth (fbgs)	Sample	Well Construction	PID (ppmv)	USCS	Lithologic Description
0					Paved asphalt
			0.3	ML	Dark Brown. Fine grained Sandy Silt. Loose. Damp.
			0.1		Yellow Brown. Fine grained Sandy Silt. Loose. Damp
5	PV 4		0.1	SM	Orange, Brown, Fine Grained Sandy Silt. Loose, Damp.
			0.0		Orange. Brown. Fine grained Sandy Silt. Loose, Damp.
10			0.0		Brown. Fine grained Sandy Silt. Loose. Damp

SCS ENGINEERS

• 11 Phelan Avenue • San Francisco, CA 94108 •

Boring Log

Project: Balboa Reservoir	Drilling Method: Direct Drill Push	Total Depth: 10'
Project No: 01217344.01	Drilling Company: TEG	Screen:
Project Task: 1	Driller:	Initial Water:
Start Date: 8/17/18	Field Geologist:	Final Water:
Date Completed: 8/17/18		

Depth (fbgs)	Sample	Well Construction	PID (ppmv)	USCS	Lithologic Description
0					Paved asphalt
			0.1	ML	Yellow. Brown. Fine grained Sandy Silt. Loose. Damp.
			0.2		Orange. Brown. Fine grained Sandy Silt. Loose. Damp.
5	P5		0.1		Yellow. Brown. Fine grained Sandy Silt. Loose. Damp.
			0.1	SM	Yellow. Brown. Fine grained Sandy Silt. Loose. Damp.
10			0.2		Brown. Fine grained Sandy Silt. Loose. Damp.

SCS ENGINEERS

• 11 Phelan Avenue • San Francisco, CA 94108 •

Boring Log

Project: Balboa Reservoir	Drilling Method: Direct Drill Push	Total Depth: 10'
Project No: 01217344.01	Drilling Company: TEG	Screen:
Project Task: 1	Driller:	Initial Water:
Start Date: 8/17/18	Field Geologist:	Final Water:
Date Completed: 8/17/18		

Depth (fbgs)	Sample	Well Construction	PID (ppmv)	USCS	Lithologic Description
0					Paved asphalt
			0.1		Orange. Brown. Fine grained Sandy Silt. Damp. Loose.
			0.3		Yellow. Brown. Fine grained Sandy Silt. Damp. Loose, Some darker Streaks, Lightens to Sandy material.
5			0.2		Brown Fine grained Sandy Silt. Damp. Loose,
	P6			SM	
			0.2		Orange Brown. Fine grained Sandy Silt. Loose. Damp.
			0.3		Yellow Brown Fine grained Sandy Silt. Loose. Damp.
10					

APPENDIX C

LABORATORY ANALYTICAL REPORTS

TEG Northern California Inc.

29 August 2018

Mr. Jim Ritchie
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566

SUBJECT: DATA REPORT - SCS Engineers Project # 01217344.01
Balboa Reservoir Project
11 Phelan Avenue, San Francisco, California

TEG Project # 80817F

Mr. Ritchie:

Please find enclosed a data report for the samples analyzed from the above referenced project for SCS Engineers. The samples were analyzed on site in TEG's mobile laboratory. TEG conducted a total of 24 analyses on 12 soil vapor samples.

-- 12 analyses on soil vapors for selected volatile organic hydrocarbons, and total petroleum hydrocarbons-gasoline range by EPA method 8260B.

-- 12 analyses on soil vapors for methane, oxygen, and carbon dioxide by GC/TCD.

The results of the analyses are summarized in the enclosed tables. Applicable detection limits and QA/QC data are included in the tables.

TEG appreciates the opportunity to have provided analytical services to SCS Engineers on this project. If you have any further questions relating to these data or report, please do not hesitate to contact us.

Sincerely,

Mark Jerpbak
Director, TEG-Northern California

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

teg

SCS Engineers Project # 01217344.01
Balboa Reservoir Project
11 Phelan Avenue
San Francisco, California

TEG Project #80817F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		Probe Blank	PV1	PV2	PV3	PV4	PV5	PV6
SAMPLE DEPTH (feet):			5.0	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:			3	3	3	3	3	3
COLLECTION DATE:		8/17/18	8/17/18	8/17/18	8/17/18	8/17/18	8/17/18	8/17/18
COLLECTION TIME:		7:43	9:18	9:38	9:56	10:16	10:42	11:02
DILUTION FACTOR:		1	1	1	1	1	1	1
	RL							
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride	9	nd	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Chloroform	60	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	30	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	50	nd	nd	nd	nd	nd	nd	nd
Benzene	45	nd	nd	nd	nd	nd	52	nd
Trichloroethene	100	nd	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	85	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethene	100	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd	nd
Naphthalene	100	nd	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	nd	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		98%	94%	96%	95%	94%	95%	94%
Surrogate Recovery (Toluene-d8)		107%	104%	105%	106%	106%	104%	106%
Surrogate Recovery (1,4-BFB)		106%	102%	106%	107%	104%	102%	105%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Chandler Jarreau-Legarda

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

SCS Engineers Project # 01217344.01
Balboa Reservoir Project
11 Phelan Avenue
San Francisco, California

TEG Project #80817F

EPA Method 8260B VOC Analyses of SOIL VAPOR in micrograms per cubic meter of Vapor

SAMPLE NUMBER:		PV7	PV8	PV9	PV10	PV10 dup	PV11
SAMPLE DEPTH (feet):		5.0	5.0	5.0	5.0	5.0	5.0
PURGE VOLUME:		3	3	3	3	3	3
COLLECTION DATE:		8/17/18	8/17/18	8/17/18	8/17/18	8/17/18	8/17/18
COLLECTION TIME:		11:20	11:40	12:02	12:22	12:22	13:01
DILUTION FACTOR:		1	1	1	1	1	1
	RL						
Dichlorodifluoromethane	100	nd	nd	nd	nd	nd	nd
Vinyl Chloride	9	nd	nd	nd	nd	nd	nd
Chloroethane	100	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	100	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	100	nd	nd	nd	nd	nd	nd
1,1,2-Trichloro-trifluoroethane	100	nd	nd	nd	nd	nd	nd
Methylene Chloride	100	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	100	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	100	nd	nd	nd	nd	nd	nd
Chloroform	60	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	100	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	30	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	50	nd	nd	nd	nd	nd	nd
Benzene	45	nd	nd	nd	nd	nd	nd
Trichloroethene	100	nd	nd	nd	nd	nd	nd
Toluene	200	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	85	nd	nd	nd	nd	nd	nd
Tetrachloroethene	100	nd	nd	nd	nd	nd	nd
Ethylbenzene	100	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
m,p-Xylene	200	nd	nd	nd	nd	nd	nd
o-Xylene	100	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	100	nd	nd	nd	nd	nd	nd
Naphthalene	100	nd	nd	nd	nd	nd	nd
TPH (gasoline range)	10000	nd	nd	nd	nd	nd	nd
1,1 Difluoroethane (leak check)	10000	nd	nd	nd	nd	nd	nd
Surrogate Recovery (DBFM)		94%	95%	94%	95%	93%	97%
Surrogate Recovery (Toluene-d8)		106%	107%	107%	106%	105%	108%
Surrogate Recovery (1,4-BFB)		104%	109%	105%	104%	105%	107%

'RL' Indicates reporting limit at a dilution factor of 1
'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Mr. Chandler Jarreau-Legarda

11350 Monier Park Place, Rancho Cordova, CA 95742 • Phone (916) 853-8010 • Fax (916) 853-8020

SCS Engineers Project # 01217344.01
Balboa Reservoir Project
11 Phelan Avenue
San Francisco, California

TEG Project #80817F

Analyses of SOIL VAPOR
Methane in ppmV; and Carbon Dioxide and Oxygen in percent by Volume

SAMPLE NUMBER	SAMPLE DEPTH (feet)	PURGE VOLUME	COLLECTION DATE	COLLECTION TIME	Methane ppmV	Carbon Dioxide %	Oxygen %
Probe Blank			8/17/18	7:43	nd	nd	21
PV1	5.0	3	8/17/18	9:18	nd	nd	21
PV2	5.0	3	8/17/18	9:38	nd	nd	21
PV3	5.0	3	8/17/18	9:56	nd	nd	21
PV4	5.0	3	8/17/18	10:16	nd	nd	21
PV5	5.0	3	8/17/18	10:42	nd	nd	20
PV6	5.0	3	8/17/18	11:02	nd	nd	21
PV7	5.0	3	8/17/18	11:20	nd	11	11
PV8	5.0	3	8/17/18	11:40	nd	5.4	16
PV9	5.0	3	8/17/18	12:02	nd	6.0	15
PV10	5.0	3	8/17/18	12:22	nd	7.2	14
PV10 dup	5.0	3	8/17/18	12:22	nd	7.3	14
PV11	5.0	3	8/17/18	13:01	nd	nd	21
				Reporting Limit:	1000	1.0	1.0

'nd' Indicates not detected at listed reporting limits

Analyses performed in TEG-Northern California's lab
Analyses performed by: Chandler Jarreau-Legarda

SCS Engineers Project # 01217344.01
Balboa Reservoir Project
11 Phelan Avenue
San Francisco, California

TEG Project #80817F

CALIBRATION DATA - Daily Calibration Check Compounds (GC/MS)

	Vinyl Chloride	1,1 DCE	Chloroform	1,2 DCP	Toluene	Ethylbenzene
Midpoint	10.0	10.0	10.0	10.0	10.0	10.0
Continuing Calibration - Midpoint						
8/17/18	9.3	10.1	9.8	10.4	10.1	11.7
	93%	101%	98%	104%	101%	117%

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Analytical Report

WorkOrder: 1808922

Report Created for: SCS Engineers

7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566

Project Contact: Jim Ritchie
Project P.O.:
Project: 01217334.01; Balba

Project Received: 08/17/2018

Analytical Report reviewed & approved for release on 08/29/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: SCS Engineers
Project: 01217334.01; Balba
WorkOrder: 1808922

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: SCS Engineers
Project: 01217334.01; Balba
WorkOrder: 1808922

Analytical Qualifiers

B	Analyte detected in the associated Method Blank and in the sample.
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
S	Surrogate spike recovery outside accepted recovery limits.
a3	Sample diluted due to high organic content.
c12	Surrogate recovery outside of the control limits.
e2	Diesel range compounds are significant; no recognizable pattern.
e7	Oil range compounds are significant.

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.
F3	The surrogate standard recovery and/or RPD is outside of acceptance limits.

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3060A
Date Prepared:	8/21/18	**Analytical Method:**	SW7199
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Hexavalent chromium by Alkaline Digestion and IC Analysis

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**IC2 18082217.CHW**	**163669**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.12**	J	0.10	0.20	1	08/22/2018 21:06

Analyst(s): AO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**IC2 18082218.CHW**	**163669**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.16**	J	0.10	0.20	1	08/22/2018 21:23

Analyst(s): AO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**IC2 18082219.CHW**	**163669**

Analytes	Result	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.35**	0.10	0.20	1	08/22/2018 21:41

Analyst(s): AO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**IC2 18082220.CHW**	**163669**

Analytes	Result	MDL	RL	DF	Date Analyzed
Hexavalent chromium	ND	0.10	0.20	1	08/22/2018 21:58

Analyst(s): AO

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3060A
Date Prepared:	8/21/18	**Analytical Method:**	SW7199
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Hexavalent chromium by Alkaline Digestion and IC Analysis

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**IC2 18082221.CHW**	**163669**

Analytes	Result	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.31**	0.10	0.20	1	08/22/2018 22:15

Analyst(s): AO

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	8/22/18	**Analytical Method:**	SW8081A/8082
Project:	01217334.01; Balba	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC23 08221842.D**	**163710**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	08/23/2018 03:20
a-BHC	ND	0.00010	1	08/23/2018 03:20
b-BHC	ND	0.00030	1	08/23/2018 03:20
d-BHC	ND	0.00020	1	08/23/2018 03:20
g-BHC	ND	0.00010	1	08/23/2018 03:20
Chlordane (Technical)	ND	0.0025	1	08/23/2018 03:20
a-Chlordane	ND	0.00010	1	08/23/2018 03:20
g-Chlordane	ND	0.00010	1	08/23/2018 03:20
p,p-DDD	ND	0.00010	1	08/23/2018 03:20
p,p-DDE	ND	0.00010	1	08/23/2018 03:20
p,p-DDT	**0.00030**	0.00010	1	08/23/2018 03:20
Dieldrin	ND	0.00010	1	08/23/2018 03:20
Endosulfan I	ND	0.00010	1	08/23/2018 03:20
Endosulfan II	ND	0.00010	1	08/23/2018 03:20
Endosulfan sulfate	ND	0.00010	1	08/23/2018 03:20
Endrin	ND	0.00010	1	08/23/2018 03:20
Endrin aldehyde	ND	0.00010	1	08/23/2018 03:20
Endrin ketone	ND	0.00010	1	08/23/2018 03:20
Heptachlor	ND	0.00010	1	08/23/2018 03:20
Heptachlor epoxide	ND	0.00010	1	08/23/2018 03:20
Hexachlorobenzene	ND	0.0010	1	08/23/2018 03:20
Hexachlorocyclopentadiene	ND	0.0020	1	08/23/2018 03:20
Methoxychlor	ND	0.00020	1	08/23/2018 03:20
Toxaphene	ND	0.0050	1	08/23/2018 03:20
Aroclor1016	ND	0.0050	1	08/23/2018 03:20
Aroclor1221	ND	0.0050	1	08/23/2018 03:20
Aroclor1232	ND	0.0050	1	08/23/2018 03:20
Aroclor1242	ND	0.0050	1	08/23/2018 03:20
Aroclor1248	ND	0.0050	1	08/23/2018 03:20
Aroclor1254	ND	0.0050	1	08/23/2018 03:20
Aroclor1260	ND	0.0050	1	08/23/2018 03:20
PCBs, total	ND	0.0050	1	08/23/2018 03:20

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	123	20-145	08/23/2018 03:20

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	8/22/18	**Analytical Method:**	SW8081A/8082
Project:	01217334.01; Balba	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC23 08231824.D**	**163710**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00050	5	08/23/2018 18:47
a-BHC	ND	0.00050	5	08/23/2018 18:47
b-BHC	ND	0.0015	5	08/23/2018 18:47
d-BHC	ND	0.0010	5	08/23/2018 18:47
g-BHC	ND	0.00050	5	08/23/2018 18:47
Chlordane (Technical)	ND	0.012	5	08/23/2018 18:47
a-Chlordane	ND	0.00050	5	08/23/2018 18:47
g-Chlordane	ND	0.00050	5	08/23/2018 18:47
p,p-DDD	ND	0.00050	5	08/23/2018 18:47
p,p-DDE	ND	0.00050	5	08/23/2018 18:47
p,p-DDT	ND	0.00050	5	08/23/2018 18:47
Dieldrin	ND	0.00050	5	08/23/2018 18:47
Endosulfan I	ND	0.00050	5	08/23/2018 18:47
Endosulfan II	ND	0.00050	5	08/23/2018 18:47
Endosulfan sulfate	ND	0.00050	5	08/23/2018 18:47
Endrin	ND	0.00050	5	08/23/2018 18:47
Endrin aldehyde	ND	0.00050	5	08/23/2018 18:47
Endrin ketone	ND	0.00050	5	08/23/2018 18:47
Heptachlor	ND	0.00050	5	08/23/2018 18:47
Heptachlor epoxide	ND	0.00050	5	08/23/2018 18:47
Hexachlorobenzene	ND	0.0050	5	08/23/2018 18:47
Hexachlorocyclopentadiene	ND	0.010	5	08/23/2018 18:47
Methoxychlor	ND	0.0010	5	08/23/2018 18:47
Toxaphene	ND	0.025	5	08/23/2018 18:47
Aroclor1016	ND	0.025	5	08/23/2018 18:47
Aroclor1221	ND	0.025	5	08/23/2018 18:47
Aroclor1232	ND	0.025	5	08/23/2018 18:47
Aroclor1242	ND	0.025	5	08/23/2018 18:47
Aroclor1248	ND	0.025	5	08/23/2018 18:47
Aroclor1254	ND	0.025	5	08/23/2018 18:47
Aroclor1260	ND	0.025	5	08/23/2018 18:47
PCBs, total	ND	0.025	5	08/23/2018 18:47

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	137	20-145	08/23/2018 18:47

Analyst(s): LT

Analytical Comments: a3

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	8/22/18	**Analytical Method:**	SW8081A/8082
Project:	01217334.01; Balba	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC23 08221844.D**	**163710**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	08/23/2018 03:51
a-BHC	ND	0.00010	1	08/23/2018 03:51
b-BHC	ND	0.00030	1	08/23/2018 03:51
d-BHC	ND	0.00020	1	08/23/2018 03:51
g-BHC	ND	0.00010	1	08/23/2018 03:51
Chlordane (Technical)	ND	0.0025	1	08/23/2018 03:51
a-Chlordane	ND	0.00010	1	08/23/2018 03:51
g-Chlordane	ND	0.00010	1	08/23/2018 03:51
p,p-DDD	ND	0.00010	1	08/23/2018 03:51
p,p-DDE	ND	0.00010	1	08/23/2018 03:51
p,p-DDT	ND	0.00010	1	08/23/2018 03:51
Dieldrin	ND	0.00010	1	08/23/2018 03:51
Endosulfan I	ND	0.00010	1	08/23/2018 03:51
Endosulfan II	ND	0.00010	1	08/23/2018 03:51
Endosulfan sulfate	ND	0.00010	1	08/23/2018 03:51
Endrin	ND	0.00010	1	08/23/2018 03:51
Endrin aldehyde	ND	0.00010	1	08/23/2018 03:51
Endrin ketone	ND	0.00010	1	08/23/2018 03:51
Heptachlor	ND	0.00010	1	08/23/2018 03:51
Heptachlor epoxide	ND	0.00010	1	08/23/2018 03:51
Hexachlorobenzene	ND	0.0010	1	08/23/2018 03:51
Hexachlorocyclopentadiene	ND	0.0020	1	08/23/2018 03:51
Methoxychlor	ND	0.00020	1	08/23/2018 03:51
Toxaphene	ND	0.0050	1	08/23/2018 03:51
Aroclor1016	ND	0.0050	1	08/23/2018 03:51
Aroclor1221	ND	0.0050	1	08/23/2018 03:51
Aroclor1232	ND	0.0050	1	08/23/2018 03:51
Aroclor1242	ND	0.0050	1	08/23/2018 03:51
Aroclor1248	ND	0.0050	1	08/23/2018 03:51
Aroclor1254	ND	0.0050	1	08/23/2018 03:51
Aroclor1260	ND	0.0050	1	08/23/2018 03:51
PCBs, total	ND	0.0050	1	08/23/2018 03:51

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	117	20-145	08/23/2018 03:51

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	8/22/18	**Analytical Method:**	SW8081A/8082
Project:	01217334.01; Balba	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC23 08221845.D**	**163710**

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	08/23/2018 04:07
a-BHC	ND	0.00010	1	08/23/2018 04:07
b-BHC	ND	0.00030	1	08/23/2018 04:07
d-BHC	ND	0.00020	1	08/23/2018 04:07
g-BHC	ND	0.00010	1	08/23/2018 04:07
Chlordane (Technical)	ND	0.0025	1	08/23/2018 04:07
a-Chlordane	ND	0.00010	1	08/23/2018 04:07
g-Chlordane	ND	0.00010	1	08/23/2018 04:07
p,p-DDD	ND	0.00010	1	08/23/2018 04:07
p,p-DDE	ND	0.00010	1	08/23/2018 04:07
p,p-DDT	ND	0.00010	1	08/23/2018 04:07
Dieldrin	ND	0.00010	1	08/23/2018 04:07
Endosulfan I	ND	0.00010	1	08/23/2018 04:07
Endosulfan II	ND	0.00010	1	08/23/2018 04:07
Endosulfan sulfate	ND	0.00010	1	08/23/2018 04:07
Endrin	ND	0.00010	1	08/23/2018 04:07
Endrin aldehyde	ND	0.00010	1	08/23/2018 04:07
Endrin ketone	ND	0.00010	1	08/23/2018 04:07
Heptachlor	ND	0.00010	1	08/23/2018 04:07
Heptachlor epoxide	ND	0.00010	1	08/23/2018 04:07
Hexachlorobenzene	ND	0.0010	1	08/23/2018 04:07
Hexachlorocyclopentadiene	ND	0.0020	1	08/23/2018 04:07
Methoxychlor	ND	0.00020	1	08/23/2018 04:07
Toxaphene	ND	0.0050	1	08/23/2018 04:07
Aroclor1016	ND	0.0050	1	08/23/2018 04:07
Aroclor1221	ND	0.0050	1	08/23/2018 04:07
Aroclor1232	ND	0.0050	1	08/23/2018 04:07
Aroclor1242	ND	0.0050	1	08/23/2018 04:07
Aroclor1248	ND	0.0050	1	08/23/2018 04:07
Aroclor1254	ND	0.0050	1	08/23/2018 04:07
Aroclor1260	ND	0.0050	1	08/23/2018 04:07
PCBs, total	ND	0.0050	1	08/23/2018 04:07

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	94	20-145	08/23/2018 04:07

Analyst(s): LT

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640Am/3630Cm
Date Prepared:	8/22/18	**Analytical Method:**	SW8081A/8082
Project:	01217334.01; Balba	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	1808922-005A	Soil	08/17/2018 12:55	GC23 08221846.D	163710

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.00010	1	08/23/2018 04:23
a-BHC	ND	0.00010	1	08/23/2018 04:23
b-BHC	ND	0.00030	1	08/23/2018 04:23
d-BHC	ND	0.00020	1	08/23/2018 04:23
g-BHC	ND	0.00010	1	08/23/2018 04:23
Chlordane (Technical)	ND	0.0025	1	08/23/2018 04:23
a-Chlordane	ND	0.00010	1	08/23/2018 04:23
g-Chlordane	ND	0.00010	1	08/23/2018 04:23
p,p-DDD	ND	0.00010	1	08/23/2018 04:23
p,p-DDE	ND	0.00010	1	08/23/2018 04:23
p,p-DDT	ND	0.00010	1	08/23/2018 04:23
Dieldrin	ND	0.00010	1	08/23/2018 04:23
Endosulfan I	ND	0.00010	1	08/23/2018 04:23
Endosulfan II	ND	0.00010	1	08/23/2018 04:23
Endosulfan sulfate	ND	0.00010	1	08/23/2018 04:23
Endrin	ND	0.00010	1	08/23/2018 04:23
Endrin aldehyde	ND	0.00010	1	08/23/2018 04:23
Endrin ketone	ND	0.00010	1	08/23/2018 04:23
Heptachlor	ND	0.00010	1	08/23/2018 04:23
Heptachlor epoxide	ND	0.00010	1	08/23/2018 04:23
Hexachlorobenzene	ND	0.0010	1	08/23/2018 04:23
Hexachlorocyclopentadiene	ND	0.0020	1	08/23/2018 04:23
Methoxychlor	ND	0.00020	1	08/23/2018 04:23
Toxaphene	ND	0.0050	1	08/23/2018 04:23
Aroclor1016	ND	0.0050	1	08/23/2018 04:23
Aroclor1221	ND	0.0050	1	08/23/2018 04:23
Aroclor1232	ND	0.0050	1	08/23/2018 04:23
Aroclor1242	ND	0.0050	1	08/23/2018 04:23
Aroclor1248	ND	0.0050	1	08/23/2018 04:23
Aroclor1254	ND	0.0050	1	08/23/2018 04:23
Aroclor1260	ND	0.0050	1	08/23/2018 04:23
PCBs, total	ND	0.0050	1	08/23/2018 04:23

Surrogates	REC (%)	Limits	
Decachlorobiphenyl	98	20-145	08/23/2018 04:23

Analyst(s): LT

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC18 08281816.D**	**163574**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2018 17:22
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2018 17:22
Benzene	ND	0.0050	1	08/28/2018 17:22
Bromobenzene	ND	0.0050	1	08/28/2018 17:22
Bromochloromethane	ND	0.0050	1	08/28/2018 17:22
Bromodichloromethane	ND	0.0010	1	08/28/2018 17:22
Bromoform	ND	0.0050	1	08/28/2018 17:22
Bromomethane	ND	0.0050	1	08/28/2018 17:22
2-Butanone (MEK)	ND	0.020	1	08/28/2018 17:22
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2018 17:22
n-Butyl benzene	ND	0.0050	1	08/28/2018 17:22
sec-Butyl benzene	ND	0.0050	1	08/28/2018 17:22
tert-Butyl benzene	ND	0.0050	1	08/28/2018 17:22
Carbon Disulfide	ND	0.0050	1	08/28/2018 17:22
Carbon Tetrachloride	ND	0.0050	1	08/28/2018 17:22
Chlorobenzene	ND	0.0050	1	08/28/2018 17:22
Chloroethane	ND	0.0050	1	08/28/2018 17:22
Chloroform	ND	0.0050	1	08/28/2018 17:22
Chloromethane	ND	0.0050	1	08/28/2018 17:22
2-Chlorotoluene	ND	0.0050	1	08/28/2018 17:22
4-Chlorotoluene	ND	0.0050	1	08/28/2018 17:22
Dibromochloromethane	ND	0.0050	1	08/28/2018 17:22
1,2-Dibromo-3-chloropropane	ND	0.00025	1	08/28/2018 17:22
1,2-Dibromoethane (EDB)	ND	0.00010	1	08/28/2018 17:22
Dibromomethane	ND	0.0050	1	08/28/2018 17:22
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2018 17:22
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2018 17:22
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2018 17:22
Dichlorodifluoromethane	ND	0.0050	1	08/28/2018 17:22
1,1-Dichloroethane	ND	0.0050	1	08/28/2018 17:22
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	08/28/2018 17:22
1,1-Dichloroethene	ND	0.00025	1	08/28/2018 17:22
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 17:22
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 17:22
1,2-Dichloropropane	ND	0.0050	1	08/28/2018 17:22
1,3-Dichloropropane	ND	0.0050	1	08/28/2018 17:22
2,2-Dichloropropane	ND	0.0050	1	08/28/2018 17:22

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC18 08281816.D**	**163574**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/28/2018 17:22
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 17:22
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 17:22
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2018 17:22
Ethylbenzene	ND	0.0050	1	08/28/2018 17:22
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2018 17:22
Freon 113	ND	0.0050	1	08/28/2018 17:22
Hexachlorobutadiene	ND	0.0050	1	08/28/2018 17:22
Hexachloroethane	ND	0.0050	1	08/28/2018 17:22
2-Hexanone	ND	0.0050	1	08/28/2018 17:22
Isopropylbenzene	ND	0.0050	1	08/28/2018 17:22
4-Isopropyl toluene	ND	0.0050	1	08/28/2018 17:22
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2018 17:22
Methylene chloride	ND	0.010	1	08/28/2018 17:22
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2018 17:22
Naphthalene	ND	0.0050	1	08/28/2018 17:22
n-Propyl benzene	ND	0.0050	1	08/28/2018 17:22
Styrene	ND	0.0050	1	08/28/2018 17:22
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2018 17:22
1,1,2,2-Tetrachloroethane	ND	0.00025	1	08/28/2018 17:22
Tetrachloroethene	ND	0.00025	1	08/28/2018 17:22
Toluene	ND	0.0050	1	08/28/2018 17:22
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2018 17:22
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2018 17:22
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2018 17:22
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2018 17:22
Trichloroethene	ND	0.0050	1	08/28/2018 17:22
Trichlorofluoromethane	ND	0.0050	1	08/28/2018 17:22
1,2,3-Trichloropropane	ND	0.00025	1	08/28/2018 17:22
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2018 17:22
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2018 17:22
Vinyl Chloride	ND	0.00025	1	08/28/2018 17:22
Xylenes, Total	ND	0.0050	1	08/28/2018 17:22

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC18 08281816.D**	**163574**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
Dibromofluoromethane	122	82-136	08/28/2018 17:22
Toluene-d8	123	92-139	08/28/2018 17:22
4-BFB	107	82-135	08/28/2018 17:22
Benzene-d6	111	55-122	08/28/2018 17:22
Ethylbenzene-d10	105	58-141	08/28/2018 17:22
1,2-DCB-d4	80	51-107	08/28/2018 17:22

Analyst(s): JEM

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC18 08281817.D**	**163574**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2018 18:02
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2018 18:02
Benzene	ND	0.0050	1	08/28/2018 18:02
Bromobenzene	ND	0.0050	1	08/28/2018 18:02
Bromochloromethane	ND	0.0050	1	08/28/2018 18:02
Bromodichloromethane	ND	0.0010	1	08/28/2018 18:02
Bromoform	ND	0.0050	1	08/28/2018 18:02
Bromomethane	ND	0.0050	1	08/28/2018 18:02
2-Butanone (MEK)	ND	0.020	1	08/28/2018 18:02
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2018 18:02
n-Butyl benzene	ND	0.0050	1	08/28/2018 18:02
sec-Butyl benzene	ND	0.0050	1	08/28/2018 18:02
tert-Butyl benzene	ND	0.0050	1	08/28/2018 18:02
Carbon Disulfide	ND	0.0050	1	08/28/2018 18:02
Carbon Tetrachloride	ND	0.0050	1	08/28/2018 18:02
Chlorobenzene	ND	0.0050	1	08/28/2018 18:02
Chloroethane	ND	0.0050	1	08/28/2018 18:02
Chloroform	ND	0.0050	1	08/28/2018 18:02
Chloromethane	ND	0.0050	1	08/28/2018 18:02
2-Chlorotoluene	ND	0.0050	1	08/28/2018 18:02
4-Chlorotoluene	ND	0.0050	1	08/28/2018 18:02
Dibromochloromethane	ND	0.0050	1	08/28/2018 18:02
1,2-Dibromo-3-chloropropane	ND	0.00025	1	08/28/2018 18:02
1,2-Dibromoethane (EDB)	ND	0.00010	1	08/28/2018 18:02
Dibromomethane	ND	0.0050	1	08/28/2018 18:02
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2018 18:02
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2018 18:02
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2018 18:02
Dichlorodifluoromethane	ND	0.0050	1	08/28/2018 18:02
1,1-Dichloroethane	ND	0.0050	1	08/28/2018 18:02
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	08/28/2018 18:02
1,1-Dichloroethene	ND	0.00025	1	08/28/2018 18:02
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 18:02
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 18:02
1,2-Dichloropropane	ND	0.0050	1	08/28/2018 18:02
1,3-Dichloropropane	ND	0.0050	1	08/28/2018 18:02
2,2-Dichloropropane	ND	0.0050	1	08/28/2018 18:02

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC18 08281817.D**	**163574**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/28/2018 18:02
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 18:02
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 18:02
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2018 18:02
Ethylbenzene	ND	0.0050	1	08/28/2018 18:02
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2018 18:02
Freon 113	ND	0.0050	1	08/28/2018 18:02
Hexachlorobutadiene	ND	0.0050	1	08/28/2018 18:02
Hexachloroethane	ND	0.0050	1	08/28/2018 18:02
2-Hexanone	ND	0.0050	1	08/28/2018 18:02
Isopropylbenzene	ND	0.0050	1	08/28/2018 18:02
4-Isopropyl toluene	ND	0.0050	1	08/28/2018 18:02
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2018 18:02
Methylene chloride	ND	0.010	1	08/28/2018 18:02
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2018 18:02
Naphthalene	ND	0.0050	1	08/28/2018 18:02
n-Propyl benzene	ND	0.0050	1	08/28/2018 18:02
Styrene	ND	0.0050	1	08/28/2018 18:02
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2018 18:02
1,1,2,2-Tetrachloroethane	ND	0.00025	1	08/28/2018 18:02
Tetrachloroethene	ND	0.00025	1	08/28/2018 18:02
Toluene	ND	0.0050	1	08/28/2018 18:02
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2018 18:02
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2018 18:02
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2018 18:02
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2018 18:02
Trichloroethene	ND	0.0050	1	08/28/2018 18:02
Trichlorofluoromethane	ND	0.0050	1	08/28/2018 18:02
1,2,3-Trichloropropane	ND	0.00025	1	08/28/2018 18:02
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2018 18:02
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2018 18:02
Vinyl Chloride	ND	0.00025	1	08/28/2018 18:02
Xylenes, Total	ND	0.0050	1	08/28/2018 18:02

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC18 08281817.D**	**163574**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
Dibromofluoromethane	120	82-136	08/28/2018 18:02
Toluene-d8	125	92-139	08/28/2018 18:02
4-BFB	106	82-135	08/28/2018 18:02
Benzene-d6	106	55-122	08/28/2018 18:02
Ethylbenzene-d10	102	58-141	08/28/2018 18:02
1,2-DCB-d4	78	51-107	08/28/2018 18:02

Analyst(s): JEM

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC38 08271828.D**	**163632**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2018 01:27
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2018 01:27
Benzene	ND	0.0050	1	08/28/2018 01:27
Bromobenzene	ND	0.0050	1	08/28/2018 01:27
Bromochloromethane	ND	0.0050	1	08/28/2018 01:27
Bromodichloromethane	ND	0.0010	1	08/28/2018 01:27
Bromoform	ND	0.0050	1	08/28/2018 01:27
Bromomethane	ND	0.0050	1	08/28/2018 01:27
2-Butanone (MEK)	ND	0.020	1	08/28/2018 01:27
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2018 01:27
n-Butyl benzene	ND	0.0050	1	08/28/2018 01:27
sec-Butyl benzene	ND	0.0050	1	08/28/2018 01:27
tert-Butyl benzene	ND	0.0050	1	08/28/2018 01:27
Carbon Disulfide	ND	0.0050	1	08/28/2018 01:27
Carbon Tetrachloride	ND	0.0050	1	08/28/2018 01:27
Chlorobenzene	ND	0.0050	1	08/28/2018 01:27
Chloroethane	ND	0.0050	1	08/28/2018 01:27
Chloroform	ND	0.0050	1	08/28/2018 01:27
Chloromethane	ND	0.0050	1	08/28/2018 01:27
2-Chlorotoluene	ND	0.0050	1	08/28/2018 01:27
4-Chlorotoluene	ND	0.0050	1	08/28/2018 01:27
Dibromochloromethane	ND	0.0050	1	08/28/2018 01:27
1,2-Dibromo-3-chloropropane	ND	0.00025	1	08/28/2018 01:27
1,2-Dibromoethane (EDB)	ND	0.00010	1	08/28/2018 01:27
Dibromomethane	ND	0.0050	1	08/28/2018 01:27
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2018 01:27
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2018 01:27
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2018 01:27
Dichlorodifluoromethane	ND	0.0050	1	08/28/2018 01:27
1,1-Dichloroethane	ND	0.0050	1	08/28/2018 01:27
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	08/28/2018 01:27
1,1-Dichloroethene	ND	0.00025	1	08/28/2018 01:27
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 01:27
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 01:27
1,2-Dichloropropane	ND	0.0050	1	08/28/2018 01:27
1,3-Dichloropropane	ND	0.0050	1	08/28/2018 01:27
2,2-Dichloropropane	ND	0.0050	1	08/28/2018 01:27

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC38 08271828.D**	**163632**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/28/2018 01:27
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 01:27
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 01:27
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2018 01:27
Ethylbenzene	ND	0.0050	1	08/28/2018 01:27
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2018 01:27
Freon 113	ND	0.0050	1	08/28/2018 01:27
Hexachlorobutadiene	ND	0.0050	1	08/28/2018 01:27
Hexachloroethane	ND	0.0050	1	08/28/2018 01:27
2-Hexanone	ND	0.0050	1	08/28/2018 01:27
Isopropylbenzene	ND	0.0050	1	08/28/2018 01:27
4-Isopropyl toluene	ND	0.0050	1	08/28/2018 01:27
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2018 01:27
Methylene chloride	ND	0.010	1	08/28/2018 01:27
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2018 01:27
Naphthalene	ND	0.0050	1	08/28/2018 01:27
n-Propyl benzene	ND	0.0050	1	08/28/2018 01:27
Styrene	ND	0.0050	1	08/28/2018 01:27
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2018 01:27
1,1,2,2-Tetrachloroethane	ND	0.00025	1	08/28/2018 01:27
Tetrachloroethene	ND	0.00025	1	08/28/2018 01:27
Toluene	ND	0.0050	1	08/28/2018 01:27
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2018 01:27
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2018 01:27
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2018 01:27
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2018 01:27
Trichloroethene	ND	0.0050	1	08/28/2018 01:27
Trichlorofluoromethane	ND	0.0050	1	08/28/2018 01:27
1,2,3-Trichloropropane	ND	0.00025	1	08/28/2018 01:27
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2018 01:27
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2018 01:27
Vinyl Chloride	ND	0.00025	1	08/28/2018 01:27
Xylenes, Total	ND	0.0050	1	08/28/2018 01:27

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC38 08271828.D**	**163632**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
Dibromofluoromethane	109	82-136	08/28/2018 01:27
Toluene-d8	139	92-139	08/28/2018 01:27
4-BFB	112	82-135	08/28/2018 01:27
Benzene-d6	86	55-122	08/28/2018 01:27
Ethylbenzene-d10	95	58-141	08/28/2018 01:27
1,2-DCB-d4	73	51-107	08/28/2018 01:27

Analyst(s): TK

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC38 08271829.D**	**163632**

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.10	1	08/28/2018 02:04
tert-Amyl methyl ether (TAME)	ND	0.0050	1	08/28/2018 02:04
Benzene	ND	0.0050	1	08/28/2018 02:04
Bromobenzene	ND	0.0050	1	08/28/2018 02:04
Bromochloromethane	ND	0.0050	1	08/28/2018 02:04
Bromodichloromethane	ND	0.0010	1	08/28/2018 02:04
Bromoform	ND	0.0050	1	08/28/2018 02:04
Bromomethane	ND	0.0050	1	08/28/2018 02:04
2-Butanone (MEK)	ND	0.020	1	08/28/2018 02:04
t-Butyl alcohol (TBA)	ND	0.050	1	08/28/2018 02:04
n-Butyl benzene	ND	0.0050	1	08/28/2018 02:04
sec-Butyl benzene	ND	0.0050	1	08/28/2018 02:04
tert-Butyl benzene	ND	0.0050	1	08/28/2018 02:04
Carbon Disulfide	ND	0.0050	1	08/28/2018 02:04
Carbon Tetrachloride	ND	0.0050	1	08/28/2018 02:04
Chlorobenzene	ND	0.0050	1	08/28/2018 02:04
Chloroethane	ND	0.0050	1	08/28/2018 02:04
Chloroform	ND	0.0050	1	08/28/2018 02:04
Chloromethane	ND	0.0050	1	08/28/2018 02:04
2-Chlorotoluene	ND	0.0050	1	08/28/2018 02:04
4-Chlorotoluene	ND	0.0050	1	08/28/2018 02:04
Dibromochloromethane	ND	0.0050	1	08/28/2018 02:04
1,2-Dibromo-3-chloropropane	ND	0.00025	1	08/28/2018 02:04
1,2-Dibromoethane (EDB)	ND	0.00010	1	08/28/2018 02:04
Dibromomethane	ND	0.0050	1	08/28/2018 02:04
1,2-Dichlorobenzene	ND	0.0050	1	08/28/2018 02:04
1,3-Dichlorobenzene	ND	0.0050	1	08/28/2018 02:04
1,4-Dichlorobenzene	ND	0.0050	1	08/28/2018 02:04
Dichlorodifluoromethane	ND	0.0050	1	08/28/2018 02:04
1,1-Dichloroethane	ND	0.0050	1	08/28/2018 02:04
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	1	08/28/2018 02:04
1,1-Dichloroethene	ND	0.00025	1	08/28/2018 02:04
cis-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 02:04
trans-1,2-Dichloroethene	ND	0.0050	1	08/28/2018 02:04
1,2-Dichloropropane	ND	0.0050	1	08/28/2018 02:04
1,3-Dichloropropane	ND	0.0050	1	08/28/2018 02:04
2,2-Dichloropropane	ND	0.0050	1	08/28/2018 02:04

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC38 08271829.D**	**163632**

Analytes	Result	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	0.0050	1	08/28/2018 02:04
cis-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 02:04
trans-1,3-Dichloropropene	ND	0.0050	1	08/28/2018 02:04
Diisopropyl ether (DIPE)	ND	0.0050	1	08/28/2018 02:04
Ethylbenzene	ND	0.0050	1	08/28/2018 02:04
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	08/28/2018 02:04
Freon 113	ND	0.0050	1	08/28/2018 02:04
Hexachlorobutadiene	ND	0.0050	1	08/28/2018 02:04
Hexachloroethane	ND	0.0050	1	08/28/2018 02:04
2-Hexanone	ND	0.0050	1	08/28/2018 02:04
Isopropylbenzene	ND	0.0050	1	08/28/2018 02:04
4-Isopropyl toluene	ND	0.0050	1	08/28/2018 02:04
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	08/28/2018 02:04
Methylene chloride	ND	0.010	1	08/28/2018 02:04
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	08/28/2018 02:04
Naphthalene	ND	0.0050	1	08/28/2018 02:04
n-Propyl benzene	ND	0.0050	1	08/28/2018 02:04
Styrene	ND	0.0050	1	08/28/2018 02:04
1,1,1,2-Tetrachloroethane	ND	0.0050	1	08/28/2018 02:04
1,1,2,2-Tetrachloroethane	ND	0.00025	1	08/28/2018 02:04
Tetrachloroethene	ND	0.00025	1	08/28/2018 02:04
Toluene	ND	0.0050	1	08/28/2018 02:04
1,2,3-Trichlorobenzene	ND	0.0050	1	08/28/2018 02:04
1,2,4-Trichlorobenzene	ND	0.0050	1	08/28/2018 02:04
1,1,1-Trichloroethane	ND	0.0050	1	08/28/2018 02:04
1,1,2-Trichloroethane	ND	0.0050	1	08/28/2018 02:04
Trichloroethene	ND	0.0050	1	08/28/2018 02:04
Trichlorofluoromethane	ND	0.0050	1	08/28/2018 02:04
1,2,3-Trichloropropane	ND	0.00025	1	08/28/2018 02:04
1,2,4-Trimethylbenzene	ND	0.0050	1	08/28/2018 02:04
1,3,5-Trimethylbenzene	ND	0.0050	1	08/28/2018 02:04
Vinyl Chloride	ND	0.00025	1	08/28/2018 02:04
Xylenes, Total	ND	0.0050	1	08/28/2018 02:04

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC38 08271829.D**	**163632**

Analytes	Result	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	
Dibromofluoromethane	110		82-136	08/28/2018 02:04
Toluene-d8	140	S	92-139	08/28/2018 02:04
4-BFB	117		82-135	08/28/2018 02:04
Benzene-d6	95		55-122	08/28/2018 02:04
Ethylbenzene-d10	104		58-141	08/28/2018 02:04
1,2-DCB-d4	81		51-107	08/28/2018 02:04

Analyst(s): TK Analytical Comments: c12

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC18 08271811.D**	**163632**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND		0.10	1	08/27/2018 13:56
tert-Amyl methyl ether (TAME)	ND		0.0050	1	08/27/2018 13:56
Benzene	ND		0.0050	1	08/27/2018 13:56
Bromobenzene	ND		0.0050	1	08/27/2018 13:56
Bromochloromethane	ND		0.0050	1	08/27/2018 13:56
Bromodichloromethane	ND		0.0010	1	08/27/2018 13:56
Bromoform	ND		0.0050	1	08/27/2018 13:56
Bromomethane	ND		0.0050	1	08/27/2018 13:56
2-Butanone (MEK)	ND		0.020	1	08/27/2018 13:56
t-Butyl alcohol (TBA)	ND		0.050	1	08/27/2018 13:56
n-Butyl benzene	ND		0.0050	1	08/27/2018 13:56
sec-Butyl benzene	ND		0.0050	1	08/27/2018 13:56
tert-Butyl benzene	ND		0.0050	1	08/27/2018 13:56
Carbon Disulfide	ND		0.0050	1	08/27/2018 13:56
Carbon Tetrachloride	ND		0.0050	1	08/27/2018 13:56
Chlorobenzene	ND		0.0050	1	08/27/2018 13:56
Chloroethane	ND		0.0050	1	08/27/2018 13:56
Chloroform	ND		0.0050	1	08/27/2018 13:56
Chloromethane	ND		0.0050	1	08/27/2018 13:56
2-Chlorotoluene	ND		0.0050	1	08/27/2018 13:56
4-Chlorotoluene	ND		0.0050	1	08/27/2018 13:56
Dibromochloromethane	ND		0.0050	1	08/27/2018 13:56
1,2-Dibromo-3-chloropropane	ND		0.00025	1	08/27/2018 13:56
1,2-Dibromoethane (EDB)	ND		0.00010	1	08/27/2018 13:56
Dibromomethane	ND		0.0050	1	08/27/2018 13:56
1,2-Dichlorobenzene	ND		0.0050	1	08/27/2018 13:56
1,3-Dichlorobenzene	ND		0.0050	1	08/27/2018 13:56
1,4-Dichlorobenzene	ND		0.0050	1	08/27/2018 13:56
Dichlorodifluoromethane	ND		0.0050	1	08/27/2018 13:56
1,1-Dichloroethane	ND		0.0050	1	08/27/2018 13:56
1,2-Dichloroethane (1,2-DCA)	ND		0.00025	1	08/27/2018 13:56
1,1-Dichloroethene	ND		0.00025	1	08/27/2018 13:56
cis-1,2-Dichloroethene	ND		0.0050	1	08/27/2018 13:56
trans-1,2-Dichloroethene	ND		0.0050	1	08/27/2018 13:56
1,2-Dichloropropane	ND		0.0050	1	08/27/2018 13:56
1,3-Dichloropropane	ND		0.0050	1	08/27/2018 13:56
2,2-Dichloropropane	ND		0.0050	1	08/27/2018 13:56

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC18 08271811.D**	**163632**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND		0.0050	1	08/27/2018 13:56
cis-1,3-Dichloropropene	ND		0.0050	1	08/27/2018 13:56
trans-1,3-Dichloropropene	ND		0.0050	1	08/27/2018 13:56
Diisopropyl ether (DIPE)	ND		0.0050	1	08/27/2018 13:56
Ethylbenzene	ND		0.0050	1	08/27/2018 13:56
Ethyl tert-butyl ether (ETBE)	ND		0.0050	1	08/27/2018 13:56
Freon 113	ND		0.0050	1	08/27/2018 13:56
Hexachlorobutadiene	ND		0.0050	1	08/27/2018 13:56
Hexachloroethane	ND		0.0050	1	08/27/2018 13:56
2-Hexanone	ND		0.0050	1	08/27/2018 13:56
Isopropylbenzene	ND		0.0050	1	08/27/2018 13:56
4-Isopropyl toluene	ND		0.0050	1	08/27/2018 13:56
Methyl-t-butyl ether (MTBE)	ND		0.0050	1	08/27/2018 13:56
Methylene chloride	ND		0.010	1	08/27/2018 13:56
4-Methyl-2-pentanone (MIBK)	ND		0.0050	1	08/27/2018 13:56
Naphthalene	ND		0.0050	1	08/27/2018 13:56
n-Propyl benzene	ND		0.0050	1	08/27/2018 13:56
Styrene	ND		0.0050	1	08/27/2018 13:56
1,1,1,2-Tetrachloroethane	ND		0.0050	1	08/27/2018 13:56
1,1,2,2-Tetrachloroethane	ND		0.00025	1	08/27/2018 13:56
Tetrachloroethene	**0.00042**		0.00025	1	08/27/2018 13:56
Toluene	ND		0.0050	1	08/27/2018 13:56
1,2,3-Trichlorobenzene	ND		0.0050	1	08/27/2018 13:56
1,2,4-Trichlorobenzene	ND		0.0050	1	08/27/2018 13:56
1,1,1-Trichloroethane	ND		0.0050	1	08/27/2018 13:56
1,1,2-Trichloroethane	ND		0.0050	1	08/27/2018 13:56
Trichloroethene	ND		0.0050	1	08/27/2018 13:56
Trichlorofluoromethane	ND		0.0050	1	08/27/2018 13:56
1,2,3-Trichloropropane	ND		0.00025	1	08/27/2018 13:56
1,2,4-Trimethylbenzene	ND		0.0050	1	08/27/2018 13:56
1,3,5-Trimethylbenzene	ND		0.0050	1	08/27/2018 13:56
Vinyl Chloride	**0.00030**	B	0.00025	1	08/27/2018 13:56
Xylenes, Total	ND		0.0050	1	08/27/2018 13:56

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC18 08271811.D**	**163632**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
Dibromofluoromethane	120	82-136	08/27/2018 13:56
Toluene-d8	127	92-139	08/27/2018 13:56
4-BFB	109	82-135	08/27/2018 13:56
Benzene-d6	111	55-122	08/27/2018 13:56
Ethylbenzene-d10	110	58-141	08/27/2018 13:56
1,2-DCB-d4	83	51-107	08/27/2018 13:56

Analyst(s): TK

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC21 08271834.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	2.8	5.0	20	08/28/2018 00:20
Acenaphthylene	ND	2.8	5.0	20	08/28/2018 00:20
Acetochlor	ND	5.0	5.0	20	08/28/2018 00:20
Anthracene	ND	2.8	5.0	20	08/28/2018 00:20
Benzidine	ND	4.6	26	20	08/28/2018 00:20
Benzo (a) anthracene	ND	1.0	1.0	20	08/28/2018 00:20
Benzo (a) pyrene	ND	0.050	0.050	20	08/28/2018 00:20
Benzo (b) fluoranthene	ND	0.25	0.25	20	08/28/2018 00:20
Benzo (g,h,i) perylene	ND	3.0	5.0	20	08/28/2018 00:20
Benzo (k) fluoranthene	ND	3.2	5.0	20	08/28/2018 00:20
Benzyl Alcohol	ND	10	26	20	08/28/2018 00:20
1,1-Biphenyl	ND	3.0	5.0	20	08/28/2018 00:20
Bis (2-chloroethoxy) Methane	ND	2.8	5.0	20	08/28/2018 00:20
Bis (2-chloroethyl) Ether	ND	0.025	0.050	20	08/28/2018 00:20
Bis (2-chloroisopropyl) Ether	ND	0.025	0.025	20	08/28/2018 00:20
Bis (2-ethylhexyl) Adipate	ND	5.0	5.0	20	08/28/2018 00:20
Bis (2-ethylhexyl) Phthalate	ND	2.6	5.0	20	08/28/2018 00:20
4-Bromophenyl Phenyl Ether	ND	3.2	5.0	20	08/28/2018 00:20
Butylbenzyl Phthalate	ND	2.6	5.0	20	08/28/2018 00:20
4-Chloroaniline	ND	0.025	0.025	20	08/28/2018 00:20
4-Chloro-3-methylphenol	ND	2.4	5.0	20	08/28/2018 00:20
2-Chloronaphthalene	ND	3.2	5.0	20	08/28/2018 00:20
2-Chlorophenol	ND	0.10	0.10	20	08/28/2018 00:20
4-Chlorophenyl Phenyl Ether	ND	3.0	5.0	20	08/28/2018 00:20
Chrysene	ND	2.8	5.0	20	08/28/2018 00:20
Dibenzo (a,h) anthracene	ND	0.050	0.050	20	08/28/2018 00:20
Dibenzofuran	ND	2.6	5.0	20	08/28/2018 00:20
Di-n-butyl Phthalate	ND	2.6	5.0	20	08/28/2018 00:20
1,2-Dichlorobenzene	ND	2.4	5.0	20	08/28/2018 00:20
1,3-Dichlorobenzene	ND	2.8	5.0	20	08/28/2018 00:20
1,4-Dichlorobenzene	ND	0.50	0.50	20	08/28/2018 00:20
3,3-Dichlorobenzidine	ND	0.10	0.10	20	08/28/2018 00:20
2,4-Dichlorophenol	ND	0.050	0.050	20	08/28/2018 00:20
Diethyl Phthalate	ND	0.20	0.20	20	08/28/2018 00:20
2,4-Dimethylphenol	ND	0.50	0.50	20	08/28/2018 00:20
Dimethyl Phthalate	ND	0.050	0.050	20	08/28/2018 00:20
4,6-Dinitro-2-methylphenol	ND	2.6	26	20	08/28/2018 00:20

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC21 08271834.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	12	12	20	08/28/2018 00:20
2,4-Dinitrotoluene	ND	0.50	0.50	20	08/28/2018 00:20
2,6-Dinitrotoluene	ND	2.8	5.0	20	08/28/2018 00:20
Di-n-octyl Phthalate	ND	2.8	10	20	08/28/2018 00:20
1,2-Diphenylhydrazine	ND	3.2	5.0	20	08/28/2018 00:20
Fluoranthene	ND	2.6	5.0	20	08/28/2018 00:20
Fluorene	ND	2.8	5.0	20	08/28/2018 00:20
Hexachlorobenzene	ND	0.50	0.50	20	08/28/2018 00:20
Hexachlorobutadiene	ND	0.50	0.50	20	08/28/2018 00:20
Hexachlorocyclopentadiene	ND	15	26	20	08/28/2018 00:20
Hexachloroethane	ND	2.8	5.0	20	08/28/2018 00:20
Indeno (1,2,3-cd) pyrene	ND	0.25	0.25	20	08/28/2018 00:20
Isophorone	ND	2.4	5.0	20	08/28/2018 00:20
2-Methylnaphthalene	ND	0.50	0.50	20	08/28/2018 00:20
2-Methylphenol (o-Cresol)	ND	2.8	5.0	20	08/28/2018 00:20
3 & 4-Methylphenol (m,p-Cresol)	ND	2.4	5.0	20	08/28/2018 00:20
Naphthalene	ND	0.050	0.050	20	08/28/2018 00:20
2-Nitroaniline	ND	12	26	20	08/28/2018 00:20
3-Nitroaniline	ND	12	26	20	08/28/2018 00:20
4-Nitroaniline	ND	11	26	20	08/28/2018 00:20
Nitrobenzene	ND	2.8	5.0	20	08/28/2018 00:20
2-Nitrophenol	ND	13	26	20	08/28/2018 00:20
4-Nitrophenol	ND	8.2	26	20	08/28/2018 00:20
N-Nitrosodiphenylamine	ND	3.2	5.0	20	08/28/2018 00:20
N-Nitrosodi-n-propylamine	ND	0.25	0.25	20	08/28/2018 00:20
Pentachlorophenol	ND	6.5	26	20	08/28/2018 00:20
Phenanthrene	ND	2.8	5.0	20	08/28/2018 00:20
Phenol	ND	0.10	0.10	20	08/28/2018 00:20
Pyrene	ND	2.6	5.0	20	08/28/2018 00:20
Pyridine	ND	5.0	5.0	20	08/28/2018 00:20
1,2,4-Trichlorobenzene	ND	2.8	5.0	20	08/28/2018 00:20
2,4,5-Trichlorophenol	ND	0.25	0.25	20	08/28/2018 00:20
2,4,6-Trichlorophenol	ND	0.25	0.25	20	08/28/2018 00:20

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC21 08271834.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
2-Fluorophenol	107	30-130	08/28/2018 00:20
Phenol-d5	75	30-130	08/28/2018 00:20
Nitrobenzene-d5	90	30-130	08/28/2018 00:20
2-Fluorobiphenyl	89	30-130	08/28/2018 00:20
2,4,6-Tribromophenol	115	16-130	08/28/2018 00:20
4-Terphenyl-d14	110	30-130	08/28/2018 00:20

Analyst(s): REB Analytical Comments: a3

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC21 08271835.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	2.8	5.0	20	08/28/2018 00:46
Acenaphthylene	ND	2.8	5.0	20	08/28/2018 00:46
Acetochlor	ND	5.0	5.0	20	08/28/2018 00:46
Anthracene	ND	2.8	5.0	20	08/28/2018 00:46
Benzidine	ND	4.6	26	20	08/28/2018 00:46
Benzo (a) anthracene	ND	1.0	1.0	20	08/28/2018 00:46
Benzo (a) pyrene	ND	0.050	0.050	20	08/28/2018 00:46
Benzo (b) fluoranthene	ND	0.25	0.25	20	08/28/2018 00:46
Benzo (g,h,i) perylene	ND	3.0	5.0	20	08/28/2018 00:46
Benzo (k) fluoranthene	ND	3.2	5.0	20	08/28/2018 00:46
Benzyl Alcohol	ND	10	26	20	08/28/2018 00:46
1,1-Biphenyl	ND	3.0	5.0	20	08/28/2018 00:46
Bis (2-chloroethoxy) Methane	ND	2.8	5.0	20	08/28/2018 00:46
Bis (2-chloroethyl) Ether	ND	0.025	0.050	20	08/28/2018 00:46
Bis (2-chloroisopropyl) Ether	ND	0.025	0.025	20	08/28/2018 00:46
Bis (2-ethylhexyl) Adipate	ND	5.0	5.0	20	08/28/2018 00:46
Bis (2-ethylhexyl) Phthalate	ND	2.6	5.0	20	08/28/2018 00:46
4-Bromophenyl Phenyl Ether	ND	3.2	5.0	20	08/28/2018 00:46
Butylbenzyl Phthalate	ND	2.6	5.0	20	08/28/2018 00:46
4-Chloroaniline	ND	0.025	0.025	20	08/28/2018 00:46
4-Chloro-3-methylphenol	ND	2.4	5.0	20	08/28/2018 00:46
2-Chloronaphthalene	ND	3.2	5.0	20	08/28/2018 00:46
2-Chlorophenol	ND	0.10	0.10	20	08/28/2018 00:46
4-Chlorophenyl Phenyl Ether	ND	3.0	5.0	20	08/28/2018 00:46
Chrysene	ND	2.8	5.0	20	08/28/2018 00:46
Dibenzo (a,h) anthracene	ND	0.050	0.050	20	08/28/2018 00:46
Dibenzofuran	ND	2.6	5.0	20	08/28/2018 00:46
Di-n-butyl Phthalate	ND	2.6	5.0	20	08/28/2018 00:46
1,2-Dichlorobenzene	ND	2.4	5.0	20	08/28/2018 00:46
1,3-Dichlorobenzene	ND	2.8	5.0	20	08/28/2018 00:46
1,4-Dichlorobenzene	ND	0.50	0.50	20	08/28/2018 00:46
3,3-Dichlorobenzidine	ND	0.10	0.10	20	08/28/2018 00:46
2,4-Dichlorophenol	ND	0.050	0.050	20	08/28/2018 00:46
Diethyl Phthalate	ND	0.20	0.20	20	08/28/2018 00:46
2,4-Dimethylphenol	ND	0.50	0.50	20	08/28/2018 00:46
Dimethyl Phthalate	ND	0.050	0.050	20	08/28/2018 00:46
4,6-Dinitro-2-methylphenol	ND	2.6	26	20	08/28/2018 00:46

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC21 08271835.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	12	12	20	08/28/2018 00:46
2,4-Dinitrotoluene	ND	0.50	0.50	20	08/28/2018 00:46
2,6-Dinitrotoluene	ND	2.8	5.0	20	08/28/2018 00:46
Di-n-octyl Phthalate	ND	2.8	10	20	08/28/2018 00:46
1,2-Diphenylhydrazine	ND	3.2	5.0	20	08/28/2018 00:46
Fluoranthene	ND	2.6	5.0	20	08/28/2018 00:46
Fluorene	ND	2.8	5.0	20	08/28/2018 00:46
Hexachlorobenzene	ND	0.50	0.50	20	08/28/2018 00:46
Hexachlorobutadiene	ND	0.50	0.50	20	08/28/2018 00:46
Hexachlorocyclopentadiene	ND	15	26	20	08/28/2018 00:46
Hexachloroethane	ND	2.8	5.0	20	08/28/2018 00:46
Indeno (1,2,3-cd) pyrene	ND	0.25	0.25	20	08/28/2018 00:46
Isophorone	ND	2.4	5.0	20	08/28/2018 00:46
2-Methylnaphthalene	ND	0.50	0.50	20	08/28/2018 00:46
2-Methylphenol (o-Cresol)	ND	2.8	5.0	20	08/28/2018 00:46
3 & 4-Methylphenol (m,p-Cresol)	ND	2.4	5.0	20	08/28/2018 00:46
Naphthalene	ND	0.050	0.050	20	08/28/2018 00:46
2-Nitroaniline	ND	12	26	20	08/28/2018 00:46
3-Nitroaniline	ND	12	26	20	08/28/2018 00:46
4-Nitroaniline	ND	11	26	20	08/28/2018 00:46
Nitrobenzene	ND	2.8	5.0	20	08/28/2018 00:46
2-Nitrophenol	ND	13	26	20	08/28/2018 00:46
4-Nitrophenol	ND	8.2	26	20	08/28/2018 00:46
N-Nitrosodiphenylamine	ND	3.2	5.0	20	08/28/2018 00:46
N-Nitrosodi-n-propylamine	ND	0.25	0.25	20	08/28/2018 00:46
Pentachlorophenol	ND	6.5	26	20	08/28/2018 00:46
Phenanthrene	ND	2.8	5.0	20	08/28/2018 00:46
Phenol	ND	0.10	0.10	20	08/28/2018 00:46
Pyrene	ND	2.6	5.0	20	08/28/2018 00:46
Pyridine	ND	5.0	5.0	20	08/28/2018 00:46
1,2,4-Trichlorobenzene	ND	2.8	5.0	20	08/28/2018 00:46
2,4,5-Trichlorophenol	ND	0.25	0.25	20	08/28/2018 00:46
2,4,6-Trichlorophenol	ND	0.25	0.25	20	08/28/2018 00:46

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC21 08271835.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
2-Fluorophenol	98	30-130	08/28/2018 00:46
Phenol-d5	75	30-130	08/28/2018 00:46
Nitrobenzene-d5	101	30-130	08/28/2018 00:46
2-Fluorobiphenyl	96	30-130	08/28/2018 00:46
2,4,6-Tribromophenol	119	16-130	08/28/2018 00:46
4-Terphenyl-d14	115	30-130	08/28/2018 00:46

Analyst(s): REB Analytical Comments: a3

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC21 08271836.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	2.8	5.0	20	08/28/2018 01:13
Acenaphthylene	ND	2.8	5.0	20	08/28/2018 01:13
Acetochlor	ND	5.0	5.0	20	08/28/2018 01:13
Anthracene	ND	2.8	5.0	20	08/28/2018 01:13
Benzidine	ND	4.6	26	20	08/28/2018 01:13
Benzo (a) anthracene	ND	1.0	1.0	20	08/28/2018 01:13
Benzo (a) pyrene	ND	0.050	0.050	20	08/28/2018 01:13
Benzo (b) fluoranthene	ND	0.25	0.25	20	08/28/2018 01:13
Benzo (g,h,i) perylene	ND	3.0	5.0	20	08/28/2018 01:13
Benzo (k) fluoranthene	ND	3.2	5.0	20	08/28/2018 01:13
Benzyl Alcohol	ND	10	26	20	08/28/2018 01:13
1,1-Biphenyl	ND	3.0	5.0	20	08/28/2018 01:13
Bis (2-chloroethoxy) Methane	ND	2.8	5.0	20	08/28/2018 01:13
Bis (2-chloroethyl) Ether	ND	0.025	0.050	20	08/28/2018 01:13
Bis (2-chloroisopropyl) Ether	ND	0.025	0.025	20	08/28/2018 01:13
Bis (2-ethylhexyl) Adipate	ND	5.0	5.0	20	08/28/2018 01:13
Bis (2-ethylhexyl) Phthalate	ND	2.6	5.0	20	08/28/2018 01:13
4-Bromophenyl Phenyl Ether	ND	3.2	5.0	20	08/28/2018 01:13
Butylbenzyl Phthalate	ND	2.6	5.0	20	08/28/2018 01:13
4-Chloroaniline	ND	0.025	0.025	20	08/28/2018 01:13
4-Chloro-3-methylphenol	ND	2.4	5.0	20	08/28/2018 01:13
2-Chloronaphthalene	ND	3.2	5.0	20	08/28/2018 01:13
2-Chlorophenol	ND	0.10	0.10	20	08/28/2018 01:13
4-Chlorophenyl Phenyl Ether	ND	3.0	5.0	20	08/28/2018 01:13
Chrysene	ND	2.8	5.0	20	08/28/2018 01:13
Dibenzo (a,h) anthracene	ND	0.050	0.050	20	08/28/2018 01:13
Dibenzofuran	ND	2.6	5.0	20	08/28/2018 01:13
Di-n-butyl Phthalate	ND	2.6	5.0	20	08/28/2018 01:13
1,2-Dichlorobenzene	ND	2.4	5.0	20	08/28/2018 01:13
1,3-Dichlorobenzene	ND	2.8	5.0	20	08/28/2018 01:13
1,4-Dichlorobenzene	ND	0.50	0.50	20	08/28/2018 01:13
3,3-Dichlorobenzidine	ND	0.10	0.10	20	08/28/2018 01:13
2,4-Dichlorophenol	ND	0.050	0.050	20	08/28/2018 01:13
Diethyl Phthalate	ND	0.20	0.20	20	08/28/2018 01:13
2,4-Dimethylphenol	ND	0.50	0.50	20	08/28/2018 01:13
Dimethyl Phthalate	ND	0.050	0.050	20	08/28/2018 01:13
4,6-Dinitro-2-methylphenol	ND	2.6	26	20	08/28/2018 01:13

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC21 08271836.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	12	12	20	08/28/2018 01:13
2,4-Dinitrotoluene	ND	0.50	0.50	20	08/28/2018 01:13
2,6-Dinitrotoluene	ND	2.8	5.0	20	08/28/2018 01:13
Di-n-octyl Phthalate	ND	2.8	10	20	08/28/2018 01:13
1,2-Diphenylhydrazine	ND	3.2	5.0	20	08/28/2018 01:13
Fluoranthene	ND	2.6	5.0	20	08/28/2018 01:13
Fluorene	ND	2.8	5.0	20	08/28/2018 01:13
Hexachlorobenzene	ND	0.50	0.50	20	08/28/2018 01:13
Hexachlorobutadiene	ND	0.50	0.50	20	08/28/2018 01:13
Hexachlorocyclopentadiene	ND	15	26	20	08/28/2018 01:13
Hexachloroethane	ND	2.8	5.0	20	08/28/2018 01:13
Indeno (1,2,3-cd) pyrene	ND	0.25	0.25	20	08/28/2018 01:13
Isophorone	ND	2.4	5.0	20	08/28/2018 01:13
2-Methylnaphthalene	ND	0.50	0.50	20	08/28/2018 01:13
2-Methylphenol (o-Cresol)	ND	2.8	5.0	20	08/28/2018 01:13
3 & 4-Methylphenol (m,p-Cresol)	ND	2.4	5.0	20	08/28/2018 01:13
Naphthalene	ND	0.050	0.050	20	08/28/2018 01:13
2-Nitroaniline	ND	12	26	20	08/28/2018 01:13
3-Nitroaniline	ND	12	26	20	08/28/2018 01:13
4-Nitroaniline	ND	11	26	20	08/28/2018 01:13
Nitrobenzene	ND	2.8	5.0	20	08/28/2018 01:13
2-Nitrophenol	ND	13	26	20	08/28/2018 01:13
4-Nitrophenol	ND	8.2	26	20	08/28/2018 01:13
N-Nitrosodiphenylamine	ND	3.2	5.0	20	08/28/2018 01:13
N-Nitrosodi-n-propylamine	ND	0.25	0.25	20	08/28/2018 01:13
Pentachlorophenol	ND	6.5	26	20	08/28/2018 01:13
Phenanthrene	ND	2.8	5.0	20	08/28/2018 01:13
Phenol	ND	0.10	0.10	20	08/28/2018 01:13
Pyrene	ND	2.6	5.0	20	08/28/2018 01:13
Pyridine	ND	5.0	5.0	20	08/28/2018 01:13
1,2,4-Trichlorobenzene	ND	2.8	5.0	20	08/28/2018 01:13
2,4,5-Trichlorophenol	ND	0.25	0.25	20	08/28/2018 01:13
2,4,6-Trichlorophenol	ND	0.25	0.25	20	08/28/2018 01:13

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1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC21 08271836.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
2-Fluorophenol	115	30-130	08/28/2018 01:13
Phenol-d5	107	30-130	08/28/2018 01:13
Nitrobenzene-d5	97	30-130	08/28/2018 01:13
2-Fluorobiphenyl	103	30-130	08/28/2018 01:13
2,4,6-Tribromophenol	124	16-130	08/28/2018 01:13
4-Terphenyl-d14	116	30-130	08/28/2018 01:13

Analyst(s): REB Analytical Comments: a3

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC21 08271837.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	0.14	0.25	1	08/28/2018 01:40
Acenaphthylene	ND	0.14	0.25	1	08/28/2018 01:40
Acetochlor	ND	0.25	0.25	1	08/28/2018 01:40
Anthracene	ND	0.14	0.25	1	08/28/2018 01:40
Benzidine	ND	0.23	1.3	1	08/28/2018 01:40
Benzo (a) anthracene	ND	0.050	0.050	1	08/28/2018 01:40
Benzo (a) pyrene	ND	0.0025	0.0025	1	08/28/2018 01:40
Benzo (b) fluoranthene	ND	0.012	0.012	1	08/28/2018 01:40
Benzo (g,h,i) perylene	ND	0.15	0.25	1	08/28/2018 01:40
Benzo (k) fluoranthene	ND	0.16	0.25	1	08/28/2018 01:40
Benzyl Alcohol	ND	0.51	1.3	1	08/28/2018 01:40
1,1-Biphenyl	ND	0.15	0.25	1	08/28/2018 01:40
Bis (2-chloroethoxy) Methane	ND	0.14	0.25	1	08/28/2018 01:40
Bis (2-chloroethyl) Ether	ND	0.0012	0.0025	1	08/28/2018 01:40
Bis (2-chloroisopropyl) Ether	ND	0.0012	0.0012	1	08/28/2018 01:40
Bis (2-ethylhexyl) Adipate	ND	0.25	0.25	1	08/28/2018 01:40
Bis (2-ethylhexyl) Phthalate	ND	0.13	0.25	1	08/28/2018 01:40
4-Bromophenyl Phenyl Ether	ND	0.16	0.25	1	08/28/2018 01:40
Butylbenzyl Phthalate	ND	0.13	0.25	1	08/28/2018 01:40
4-Chloroaniline	ND	0.0012	0.0012	1	08/28/2018 01:40
4-Chloro-3-methylphenol	ND	0.12	0.25	1	08/28/2018 01:40
2-Chloronaphthalene	ND	0.16	0.25	1	08/28/2018 01:40
2-Chlorophenol	ND	0.0050	0.0050	1	08/28/2018 01:40
4-Chlorophenyl Phenyl Ether	ND	0.15	0.25	1	08/28/2018 01:40
Chrysene	ND	0.14	0.25	1	08/28/2018 01:40
Dibenzo (a,h) anthracene	ND	0.0025	0.0025	1	08/28/2018 01:40
Dibenzofuran	ND	0.13	0.25	1	08/28/2018 01:40
Di-n-butyl Phthalate	ND	0.13	0.25	1	08/28/2018 01:40
1,2-Dichlorobenzene	ND	0.12	0.25	1	08/28/2018 01:40
1,3-Dichlorobenzene	ND	0.14	0.25	1	08/28/2018 01:40
1,4-Dichlorobenzene	ND	0.025	0.025	1	08/28/2018 01:40
3,3-Dichlorobenzidine	ND	0.0050	0.0050	1	08/28/2018 01:40
2,4-Dichlorophenol	ND	0.0025	0.0025	1	08/28/2018 01:40
Diethyl Phthalate	ND	0.010	0.010	1	08/28/2018 01:40
2,4-Dimethylphenol	ND	0.025	0.025	1	08/28/2018 01:40
Dimethyl Phthalate	ND	0.0025	0.0025	1	08/28/2018 01:40
4,6-Dinitro-2-methylphenol	ND	0.13	1.3	1	08/28/2018 01:40

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC21 08271837.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	0.62	0.62	1	08/28/2018 01:40
2,4-Dinitrotoluene	ND	0.025	0.025	1	08/28/2018 01:40
2,6-Dinitrotoluene	ND	0.14	0.25	1	08/28/2018 01:40
Di-n-octyl Phthalate	ND	0.14	0.50	1	08/28/2018 01:40
1,2-Diphenylhydrazine	ND	0.16	0.25	1	08/28/2018 01:40
Fluoranthene	ND	0.13	0.25	1	08/28/2018 01:40
Fluorene	ND	0.14	0.25	1	08/28/2018 01:40
Hexachlorobenzene	ND	0.025	0.025	1	08/28/2018 01:40
Hexachlorobutadiene	ND	0.025	0.025	1	08/28/2018 01:40
Hexachlorocyclopentadiene	ND	0.73	1.3	1	08/28/2018 01:40
Hexachloroethane	ND	0.14	0.25	1	08/28/2018 01:40
Indeno (1,2,3-cd) pyrene	ND	0.012	0.012	1	08/28/2018 01:40
Isophorone	ND	0.12	0.25	1	08/28/2018 01:40
2-Methylnaphthalene	ND	0.025	0.025	1	08/28/2018 01:40
2-Methylphenol (o-Cresol)	ND	0.14	0.25	1	08/28/2018 01:40
3 & 4-Methylphenol (m,p-Cresol)	ND	0.12	0.25	1	08/28/2018 01:40
Naphthalene	ND	0.0025	0.0025	1	08/28/2018 01:40
2-Nitroaniline	ND	0.62	1.3	1	08/28/2018 01:40
3-Nitroaniline	ND	0.59	1.3	1	08/28/2018 01:40
4-Nitroaniline	ND	0.55	1.3	1	08/28/2018 01:40
Nitrobenzene	ND	0.14	0.25	1	08/28/2018 01:40
2-Nitrophenol	ND	0.64	1.3	1	08/28/2018 01:40
4-Nitrophenol	ND	0.41	1.3	1	08/28/2018 01:40
N-Nitrosodiphenylamine	ND	0.16	0.25	1	08/28/2018 01:40
N-Nitrosodi-n-propylamine	ND	0.012	0.012	1	08/28/2018 01:40
Pentachlorophenol	ND	0.32	1.3	1	08/28/2018 01:40
Phenanthrene	ND	0.14	0.25	1	08/28/2018 01:40
Phenol	ND	0.0050	0.0050	1	08/28/2018 01:40
Pyrene	ND	0.13	0.25	1	08/28/2018 01:40
Pyridine	ND	0.25	0.25	1	08/28/2018 01:40
1,2,4-Trichlorobenzene	ND	0.14	0.25	1	08/28/2018 01:40
2,4,5-Trichlorophenol	ND	0.012	0.012	1	08/28/2018 01:40
2,4,6-Trichlorophenol	ND	0.012	0.012	1	08/28/2018 01:40

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC21 08271837.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
2-Fluorophenol	98	30-130	08/28/2018 01:40
Phenol-d5	93	30-130	08/28/2018 01:40
Nitrobenzene-d5	100	30-130	08/28/2018 01:40
2-Fluorobiphenyl	83	30-130	08/28/2018 01:40
2,4,6-Tribromophenol	116	16-130	08/28/2018 01:40
4-Terphenyl-d14	84	30-130	08/28/2018 01:40

Analyst(s): REB

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC21 08271838.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
Acenaphthene	ND	1.4	2.5	10	08/28/2018 02:06
Acenaphthylene	ND	1.4	2.5	10	08/28/2018 02:06
Acetochlor	ND	2.5	2.5	10	08/28/2018 02:06
Anthracene	ND	1.4	2.5	10	08/28/2018 02:06
Benzidine	ND	2.3	13	10	08/28/2018 02:06
Benzo (a) anthracene	ND	0.50	0.50	10	08/28/2018 02:06
Benzo (a) pyrene	ND	0.025	0.025	10	08/28/2018 02:06
Benzo (b) fluoranthene	ND	0.12	0.12	10	08/28/2018 02:06
Benzo (g,h,i) perylene	ND	1.5	2.5	10	08/28/2018 02:06
Benzo (k) fluoranthene	ND	1.6	2.5	10	08/28/2018 02:06
Benzyl Alcohol	ND	5.1	13	10	08/28/2018 02:06
1,1-Biphenyl	ND	1.5	2.5	10	08/28/2018 02:06
Bis (2-chloroethoxy) Methane	ND	1.4	2.5	10	08/28/2018 02:06
Bis (2-chloroethyl) Ether	ND	0.012	0.025	10	08/28/2018 02:06
Bis (2-chloroisopropyl) Ether	ND	0.012	0.012	10	08/28/2018 02:06
Bis (2-ethylhexyl) Adipate	ND	2.5	2.5	10	08/28/2018 02:06
Bis (2-ethylhexyl) Phthalate	ND	1.3	2.5	10	08/28/2018 02:06
4-Bromophenyl Phenyl Ether	ND	1.6	2.5	10	08/28/2018 02:06
Butylbenzyl Phthalate	ND	1.3	2.5	10	08/28/2018 02:06
4-Chloroaniline	ND	0.012	0.012	10	08/28/2018 02:06
4-Chloro-3-methylphenol	ND	1.2	2.5	10	08/28/2018 02:06
2-Chloronaphthalene	ND	1.6	2.5	10	08/28/2018 02:06
2-Chlorophenol	ND	0.050	0.050	10	08/28/2018 02:06
4-Chlorophenyl Phenyl Ether	ND	1.5	2.5	10	08/28/2018 02:06
Chrysene	ND	1.4	2.5	10	08/28/2018 02:06
Dibenzo (a,h) anthracene	ND	0.025	0.025	10	08/28/2018 02:06
Dibenzofuran	ND	1.3	2.5	10	08/28/2018 02:06
Di-n-butyl Phthalate	ND	1.3	2.5	10	08/28/2018 02:06
1,2-Dichlorobenzene	ND	1.2	2.5	10	08/28/2018 02:06
1,3-Dichlorobenzene	ND	1.4	2.5	10	08/28/2018 02:06
1,4-Dichlorobenzene	ND	0.25	0.25	10	08/28/2018 02:06
3,3-Dichlorobenzidine	ND	0.050	0.050	10	08/28/2018 02:06
2,4-Dichlorophenol	ND	0.025	0.025	10	08/28/2018 02:06
Diethyl Phthalate	ND	0.10	0.10	10	08/28/2018 02:06
2,4-Dimethylphenol	ND	0.25	0.25	10	08/28/2018 02:06
Dimethyl Phthalate	ND	0.025	0.025	10	08/28/2018 02:06
4,6-Dinitro-2-methylphenol	ND	1.3	13	10	08/28/2018 02:06

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC21 08271838.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed
2,4-Dinitrophenol	ND	6.2	6.2	10	08/28/2018 02:06
2,4-Dinitrotoluene	ND	0.25	0.25	10	08/28/2018 02:06
2,6-Dinitrotoluene	ND	1.4	2.5	10	08/28/2018 02:06
Di-n-octyl Phthalate	ND	1.4	5.0	10	08/28/2018 02:06
1,2-Diphenylhydrazine	ND	1.6	2.5	10	08/28/2018 02:06
Fluoranthene	ND	1.3	2.5	10	08/28/2018 02:06
Fluorene	ND	1.4	2.5	10	08/28/2018 02:06
Hexachlorobenzene	ND	0.25	0.25	10	08/28/2018 02:06
Hexachlorobutadiene	ND	0.25	0.25	10	08/28/2018 02:06
Hexachlorocyclopentadiene	ND	7.3	13	10	08/28/2018 02:06
Hexachloroethane	ND	1.4	2.5	10	08/28/2018 02:06
Indeno (1,2,3-cd) pyrene	ND	0.12	0.12	10	08/28/2018 02:06
Isophorone	ND	1.2	2.5	10	08/28/2018 02:06
2-Methylnaphthalene	ND	0.25	0.25	10	08/28/2018 02:06
2-Methylphenol (o-Cresol)	ND	1.4	2.5	10	08/28/2018 02:06
3 & 4-Methylphenol (m,p-Cresol)	ND	1.2	2.5	10	08/28/2018 02:06
Naphthalene	ND	0.025	0.025	10	08/28/2018 02:06
2-Nitroaniline	ND	6.2	13	10	08/28/2018 02:06
3-Nitroaniline	ND	5.9	13	10	08/28/2018 02:06
4-Nitroaniline	ND	5.5	13	10	08/28/2018 02:06
Nitrobenzene	ND	1.4	2.5	10	08/28/2018 02:06
2-Nitrophenol	ND	6.4	13	10	08/28/2018 02:06
4-Nitrophenol	ND	4.1	13	10	08/28/2018 02:06
N-Nitrosodiphenylamine	ND	1.6	2.5	10	08/28/2018 02:06
N-Nitrosodi-n-propylamine	ND	0.12	0.12	10	08/28/2018 02:06
Pentachlorophenol	ND	3.2	13	10	08/28/2018 02:06
Phenanthrene	ND	1.4	2.5	10	08/28/2018 02:06
Phenol	ND	0.050	0.050	10	08/28/2018 02:06
Pyrene	ND	1.3	2.5	10	08/28/2018 02:06
Pyridine	ND	2.5	2.5	10	08/28/2018 02:06
1,2,4-Trichlorobenzene	ND	1.4	2.5	10	08/28/2018 02:06
2,4,5-Trichlorophenol	ND	0.12	0.12	10	08/28/2018 02:06
2,4,6-Trichlorophenol	ND	0.12	0.12	10	08/28/2018 02:06

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3640A
Date Prepared:	8/23/18	**Analytical Method:**	SW8270C
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Semi-Volatile Organics (Low Level) with GPC Cleanup

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC21 08271838.D**	**163764**

Analytes	Result	MDL	RL	DF	Date Analyzed

Surrogates	REC (%)	Limits	
2-Fluorophenol	98	30-130	08/28/2018 02:06
Phenol-d5	82	30-130	08/28/2018 02:06
Nitrobenzene-d5	93	30-130	08/28/2018 02:06
2-Fluorobiphenyl	85	30-130	08/28/2018 02:06
2,4,6-Tribromophenol	101	16-130	08/28/2018 02:06
4-Terphenyl-d14	99	30-130	08/28/2018 02:06

Analyst(s): REB

Analytical Comments: a3

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3050B
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**ICP-MS2 074SMPL.D**	**163616**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/22/2018 15:51
Arsenic	**1.5**	0.50	1	08/22/2018 15:51
Barium	**44**	5.0	1	08/22/2018 15:51
Beryllium	ND	0.50	1	08/22/2018 15:51
Cadmium	ND	0.25	1	08/22/2018 15:51
Chromium	**48**	0.50	1	08/22/2018 15:51
Cobalt	**6.6**	0.50	1	08/22/2018 15:51
Copper	**8.0**	0.50	1	08/22/2018 15:51
Lead	**2.3**	0.50	1	08/22/2018 15:51
Mercury	ND	0.050	1	08/22/2018 15:51
Molybdenum	ND	0.50	1	08/22/2018 15:51
Nickel	**32**	0.50	1	08/22/2018 15:51
Selenium	ND	0.50	1	08/22/2018 15:51
Silver	ND	0.50	1	08/22/2018 15:51
Thallium	ND	0.50	1	08/22/2018 15:51
Vanadium	**33**	0.50	1	08/22/2018 15:51
Zinc	**25**	5.0	1	08/22/2018 15:51

Surrogates	REC (%)	Limits	
Terbium	107	70-130	08/22/2018 15:51

Analyst(s): MIG

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CA ELAP 1644 • NELAP 4033ORELAP

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3050B
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**ICP-MS2 075SMPL.D**	**163616**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/22/2018 15:57
Arsenic	**2.5**	0.50	1	08/22/2018 15:57
Barium	**37**	5.0	1	08/22/2018 15:57
Beryllium	ND	0.50	1	08/22/2018 15:57
Cadmium	ND	0.25	1	08/22/2018 15:57
Chromium	**54**	0.50	1	08/22/2018 15:57
Cobalt	**8.4**	0.50	1	08/22/2018 15:57
Copper	**5.6**	0.50	1	08/22/2018 15:57
Lead	**2.2**	0.50	1	08/22/2018 15:57
Mercury	ND	0.050	1	08/22/2018 15:57
Molybdenum	ND	0.50	1	08/22/2018 15:57
Nickel	**31**	0.50	1	08/22/2018 15:57
Selenium	ND	0.50	1	08/22/2018 15:57
Silver	ND	0.50	1	08/22/2018 15:57
Thallium	ND	0.50	1	08/22/2018 15:57
Vanadium	**38**	0.50	1	08/22/2018 15:57
Zinc	**20**	5.0	1	08/22/2018 15:57

Surrogates	REC (%)	Limits	
Terbium	106	70-130	08/22/2018 15:57

Analyst(s): MIG

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3050B
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**ICP-MS2 076SMPL.D**	**163616**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/22/2018 16:03
Arsenic	**3.2**	0.50	1	08/22/2018 16:03
Barium	**55**	5.0	1	08/22/2018 16:03
Beryllium	ND	0.50	1	08/22/2018 16:03
Cadmium	ND	0.25	1	08/22/2018 16:03
Chromium	**59**	0.50	1	08/22/2018 16:03
Cobalt	**8.4**	0.50	1	08/22/2018 16:03
Copper	**9.8**	0.50	1	08/22/2018 16:03
Lead	**2.5**	0.50	1	08/22/2018 16:03
Mercury	ND	0.050	1	08/22/2018 16:03
Molybdenum	ND	0.50	1	08/22/2018 16:03
Nickel	**40**	0.50	1	08/22/2018 16:03
Selenium	ND	0.50	1	08/22/2018 16:03
Silver	ND	0.50	1	08/22/2018 16:03
Thallium	ND	0.50	1	08/22/2018 16:03
Vanadium	**61**	0.50	1	08/22/2018 16:03
Zinc	**26**	5.0	1	08/22/2018 16:03

Surrogates	REC (%)	Limits	
Terbium	106	70-130	08/22/2018 16:03

Analyst(s): MIG

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3050B
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**ICP-MS2 077SMPL.D**	**163616**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/22/2018 16:09
Arsenic	**1.9**	0.50	1	08/22/2018 16:09
Barium	**46**	5.0	1	08/22/2018 16:09
Beryllium	ND	0.50	1	08/22/2018 16:09
Cadmium	ND	0.25	1	08/22/2018 16:09
Chromium	**47**	0.50	1	08/22/2018 16:09
Cobalt	**5.5**	0.50	1	08/22/2018 16:09
Copper	**7.3**	0.50	1	08/22/2018 16:09
Lead	**2.8**	0.50	1	08/22/2018 16:09
Mercury	ND	0.050	1	08/22/2018 16:09
Molybdenum	ND	0.50	1	08/22/2018 16:09
Nickel	**19**	0.50	1	08/22/2018 16:09
Selenium	ND	0.50	1	08/22/2018 16:09
Silver	ND	0.50	1	08/22/2018 16:09
Thallium	ND	0.50	1	08/22/2018 16:09
Vanadium	**40**	0.50	1	08/22/2018 16:09
Zinc	**20**	5.0	1	08/22/2018 16:09

Surrogates	REC (%)	Limits	
Terbium	108	70-130	08/22/2018 16:09

Analyst(s): MIG

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3050B
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/Kg

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**ICP-MS2 078SMPL.D**	**163616**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	08/22/2018 16:15
Arsenic	**2.8**	0.50	1	08/22/2018 16:15
Barium	**140**	5.0	1	08/22/2018 16:15
Beryllium	ND	0.50	1	08/22/2018 16:15
Cadmium	ND	0.25	1	08/22/2018 16:15
Chromium	**58**	0.50	1	08/22/2018 16:15
Cobalt	**8.2**	0.50	1	08/22/2018 16:15
Copper	**9.8**	0.50	1	08/22/2018 16:15
Lead	**2.9**	0.50	1	08/22/2018 16:15
Mercury	ND	0.050	1	08/22/2018 16:15
Molybdenum	**0.53**	0.50	1	08/22/2018 16:15
Nickel	**35**	0.50	1	08/22/2018 16:15
Selenium	ND	0.50	1	08/22/2018 16:15
Silver	ND	0.50	1	08/22/2018 16:15
Thallium	ND	0.50	1	08/22/2018 16:15
Vanadium	**50**	0.50	1	08/22/2018 16:15
Zinc	**26**	5.0	1	08/22/2018 16:15

Surrogates	REC (%)	Limits	
Terbium	106	70-130	08/22/2018 16:15

Analyst(s): MIG

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	8/23/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**WC_SKALAR 082418B1_12**	**163801**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	0.10	1	08/24/2018 16:53

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**WC_SKALAR 082418B1_15**	**163801**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	0.10	1	08/24/2018 17:03

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**WC_SKALAR 082418B1_16**	**163801**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	0.10	1	08/24/2018 17:06

Analyst(s): BM

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**WC_SKALAR 082418B1_17**	**163801**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	0.10	1	08/24/2018 17:10

Analyst(s): BM

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SM4500-CN⁻ E
Date Prepared:	8/23/18	**Analytical Method:**	SM4500-CN⁻ CE
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Cyanide, Total

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**WC_SKALAR 082418B1_25**	**163801**

Analytes	Result	RL	DF	Date Analyzed
Total Cyanide	ND	0.10	1	08/24/2018 17:36

Analyst(s): BM

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8021B/8015Bm
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC19 08251817.D**	**163604**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/25/2018 20:01
MTBE	---	0.050	1	08/25/2018 20:01
Benzene	---	0.0050	1	08/25/2018 20:01
Toluene	---	0.0050	1	08/25/2018 20:01
Ethylbenzene	---	0.0050	1	08/25/2018 20:01
m,p-Xylene	---	0.010	1	08/25/2018 20:01
o-Xylene	---	0.0050	1	08/25/2018 20:01
Xylenes	---	0.0050	1	08/25/2018 20:01

Surrogates	REC (%)	Limits	
2-Fluorotoluene	77	62-126	08/25/2018 20:01

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC19 08251818.D**	**163604**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/25/2018 20:31
MTBE	---	0.050	1	08/25/2018 20:31
Benzene	---	0.0050	1	08/25/2018 20:31
Toluene	---	0.0050	1	08/25/2018 20:31
Ethylbenzene	---	0.0050	1	08/25/2018 20:31
m,p-Xylene	---	0.010	1	08/25/2018 20:31
o-Xylene	---	0.0050	1	08/25/2018 20:31
Xylenes	---	0.0050	1	08/25/2018 20:31

Surrogates	REC (%)	Limits	
2-Fluorotoluene	75	62-126	08/25/2018 20:31

Analyst(s): IA

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8021B/8015Bm
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC19 08251822.D**	**163604**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/25/2018 22:31
MTBE	---	0.050	1	08/25/2018 22:31
Benzene	---	0.0050	1	08/25/2018 22:31
Toluene	---	0.0050	1	08/25/2018 22:31
Ethylbenzene	---	0.0050	1	08/25/2018 22:31
m,p-Xylene	---	0.010	1	08/25/2018 22:31
o-Xylene	---	0.0050	1	08/25/2018 22:31
Xylenes	---	0.0050	1	08/25/2018 22:31

Surrogates	REC (%)	Limits	
2-Fluorotoluene	75	62-126	08/25/2018 22:31

Analyst(s): IA

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC19 08251823.D**	**163604**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/25/2018 23:01
MTBE	---	0.050	1	08/25/2018 23:01
Benzene	---	0.0050	1	08/25/2018 23:01
Toluene	---	0.0050	1	08/25/2018 23:01
Ethylbenzene	---	0.0050	1	08/25/2018 23:01
m,p-Xylene	---	0.010	1	08/25/2018 23:01
o-Xylene	---	0.0050	1	08/25/2018 23:01
Xylenes	---	0.0050	1	08/25/2018 23:01

Surrogates	REC (%)	Limits	
2-Fluorotoluene	74	62-126	08/25/2018 23:01

Analyst(s): IA

(Cont.)

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	8/21/18	**Analytical Method:**	SW8021B/8015Bm
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC19 08251827.D**	**163604**

Analytes	Result	RL	DF	Date Analyzed
TPH(g) (C6-C12)	ND	1.0	1	08/26/2018 01:00
MTBE	---	0.050	1	08/26/2018 01:00
Benzene	---	0.0050	1	08/26/2018 01:00
Toluene	---	0.0050	1	08/26/2018 01:00
Ethylbenzene	---	0.0050	1	08/26/2018 01:00
m,p-Xylene	---	0.010	1	08/26/2018 01:00
o-Xylene	---	0.0050	1	08/26/2018 01:00
Xylenes	---	0.0050	1	08/26/2018 01:00

Surrogates	REC (%)	Limits	
2-Fluorotoluene	80	62-126	08/26/2018 01:00

Analyst(s): IA

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	CA Title 22
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**ICP-MS2 144SMPL.D**	**163652**

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	0.10	1	08/23/2018 22:25

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**ICP-MS2 148SMPL.D**	**163652**

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	0.10	1	08/23/2018 22:50

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**ICP-MS2 149SMPL.D**	**163652**

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	0.10	1	08/23/2018 22:56

Analyst(s): ND

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**ICP-MS2 150SMPL.D**	**163652**

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	0.10	1	08/23/2018 23:02

Analyst(s): ND

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	CA Title 22
Date Prepared:	8/21/18	**Analytical Method:**	SW6020
Project:	01217334.01; Balba	**Unit:**	mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**ICP-MS2 151SMPL.D**	**163652**

Analytes	Result	RL	DF	Date Analyzed
Lead	ND	0.10	1	08/23/2018 23:08

Analyst(s): ND

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3630C
Date Prepared:	8/21/18	**Analytical Method:**	SW8015B
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P1 0.75, 2.5	**1808922-001A**	**Soil**	**08/17/2018 10:40**	**GC11B 08271809.D**	**163625**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**4.0**	2.0	2	08/27/2018 17:20
TPH-Motor Oil (C18-C36)	**79**	10	2	08/27/2018 17:20

Surrogates	REC (%)	Limits	
C9	96	74-123	08/27/2018 17:20

Analyst(s): JIS Analytical Comments: e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P2 0.75, 2.5	**1808922-002A**	**Soil**	**08/17/2018 10:11**	**GC9b 08261883.D**	**163625**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**11**	5.0	5	08/27/2018 11:54
TPH-Motor Oil (C18-C36)	**110**	25	5	08/27/2018 11:54

Surrogates	REC (%)	Limits	
C9	82	74-123	08/27/2018 11:54

Analyst(s): JIS Analytical Comments: e2,e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75, 2.5	**1808922-003A**	**Soil**	**08/17/2018 11:18**	**GC9a 08261884.D**	**163625**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**1.1**	1.0	1	08/27/2018 11:54
TPH-Motor Oil (C18-C36)	**25**	5.0	1	08/27/2018 11:54

Surrogates	REC (%)	Limits	
C9	80	74-123	08/27/2018 11:54

Analyst(s): JIS Analytical Comments: e2,e7

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3550B/3630C
Date Prepared:	8/21/18	**Analytical Method:**	SW8015B
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P4 0.75, 2.5	**1808922-004A**	**Soil**	**08/17/2018 11:48**	**GC6A 08261846.D**	**163625**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	1.0	1	08/26/2018 23:48
TPH-Motor Oil (C18-C36)	ND	5.0	1	08/26/2018 23:48

Surrogates	REC (%)	Limits	
C9	102	74-123	08/26/2018 23:48

Analyst(s): JIS

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5 & P6 0.75, 5	**1808922-005A**	**Soil**	**08/17/2018 12:55**	**GC9b 08211863.D**	**163625**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	**2.0**	1.0	1	08/22/2018 11:04
TPH-Motor Oil (C18-C36)	**20**	5.0	1	08/22/2018 11:04

Surrogates	REC (%)	Limits	
C9	79	74-123	08/22/2018 11:04

Analyst(s): JIS

Analytical Comments: e2,e7

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163669
Date Analyzed:	8/22/18	**Extraction Method:**	SW3060A
Instrument:	IC2	**Analytical Method:**	SW7199
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163669

QC Summary Report for SW7199 (Hexavalent chromium)

Analyte	MB Result	MDL	RL			
Hexavalent chromium	ND	0.10	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Hexavalent chromium	21.8	21.2	20	109	106	70-130	2.68	10

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/22/18	**BatchID:**	163710
Date Analyzed:	8/22/18 - 8/24/18	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23, GC40	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163710

QC Summary Report for SW8081A/8082

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00010	-	-	-
a-BHC	ND	0.00010	-	-	-
b-BHC	ND	0.00030	-	-	-
d-BHC	ND	0.00020	-	-	-
g-BHC	ND	0.00010	-	-	-
Chlordane (Technical)	ND	0.0025	-	-	-
a-Chlordane	ND	0.00010	-	-	-
g-Chlordane	ND	0.00010	-	-	-
p,p-DDD	ND	0.00010	-	-	-
p,p-DDE	ND	0.00010	-	-	-
p,p-DDT	ND	0.00010	-	-	-
Dieldrin	ND	0.00010	-	-	-
Endosulfan I	ND	0.00010	-	-	-
Endosulfan II	ND	0.00010	-	-	-
Endosulfan sulfate	ND	0.00010	-	-	-
Endrin	ND	0.00010	-	-	-
Endrin aldehyde	ND	0.00010	-	-	-
Endrin ketone	ND	0.00010	-	-	-
Heptachlor	ND	0.00010	-	-	-
Heptachlor epoxide	ND	0.00010	-	-	-
Hexachlorobenzene	ND	0.0010	-	-	-
Hexachlorocyclopentadiene	ND	0.0020	-	-	-
Methoxychlor	ND	0.00020	-	-	-
Toxaphene	ND	0.0050	-	-	-
Aroclor1016	ND	0.0050	-	-	-
Aroclor1221	ND	0.0050	-	-	-
Aroclor1232	ND	0.0050	-	-	-
Aroclor1242	ND	0.0050	-	-	-
Aroclor1248	ND	0.0050	-	-	-
Aroclor1254	ND	0.0050	-	-	-
Aroclor1260	ND	0.0050	-	-	-
PCBs, total	ND	0.0050	-	-	-
Surrogate Recovery					
Decachlorobiphenyl	0.00634		0.0050	127	28-170

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/22/18	**BatchID:**	163710
Date Analyzed:	8/22/18 - 8/24/18	**Extraction Method:**	SW3550B/3640Am/3630Cm
Instrument:	GC23, GC40	**Analytical Method:**	SW8081A/8082
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163710

QC Summary Report for SW8081A/8082

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.00513	0.00523	0.0050	103	105	31-155	2.04	20
a-BHC	0.00506	0.00511	0.0050	101	102	32-160	1.06	20
b-BHC	0.00574	0.00579	0.0050	115	116	44-149	0.949	20
d-BHC	0.00603	0.00614	0.0050	121	123	37-157	1.71	20
g-BHC	0.00526	0.00530	0.0050	105	106	43-154	0.749	20
a-Chlordane	0.00538	0.00557	0.0050	108	111	39-150	3.37	20
g-Chlordane	0.00607	0.00627	0.0050	121	125	39-151	3.27	20
p,p-DDD	0.00529	0.00538	0.0050	106	108	30-158	1.64	20
p,p-DDE	0.00540	0.00562	0.0050	108	112	47-149	4.06	20
p,p-DDT	0.00620	0.00638	0.0050	124	128	56-166	2.88	20
Dieldrin	0.00612	0.00637	0.0050	122	127	50-163	4.09	20
Endosulfan I	0.00546	0.00565	0.0050	109	113	45-159	3.35	20
Endosulfan II	0.00612	0.00634	0.0050	122	127	41-155	3.61	20
Endosulfan sulfate	0.00722	0.00703	0.0050	144	141	45-156	2.67	20
Endrin	0.00613	0.00635	0.0050	123	127	54-154	3.45	20
Endrin aldehyde	0.00435	0.00472	0.0050	87	94	27-159	8.32	20
Endrin ketone	0.00707	0.00718	0.0050	141	144	40-147	1.51	20
Heptachlor	0.00528	0.00532	0.0050	106	106	52-165	0	20
Heptachlor epoxide	0.00519	0.00532	0.0050	104	106	46-145	2.37	20
Hexachlorobenzene	0.00288	0.00309	0.0050	58	62	22-156	7.07	20
Hexachlorocyclopentadiene	0.00365	0.00404	0.0050	73	81	43-173	10.1	20
Methoxychlor	0.00817	0.00788	0.0050	163, F2	158, F2	49-150	3.62	20
Aroclor1016	0.0159	0.0146	0.015	106	97	49-120	8.78	20
Aroclor1260	0.0142	0.0130	0.015	95	86	48-160	9.29	20
Surrogate Recovery								
Decachlorobiphenyl	0.00536	0.00532	0.0050	107	106	28-170	0.653	20

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/20/18	**BatchID:**	163574
Date Analyzed:	8/26/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163574

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0050	-	-	-
Benzene	ND	0.0050	-	-	-
Bromobenzene	ND	0.0050	-	-	-
Bromochloromethane	ND	0.0050	-	-	-
Bromodichloromethane	ND	0.0010	-	-	-
Bromoform	ND	0.0050	-	-	-
Bromomethane	ND	0.0050	-	-	-
2-Butanone (MEK)	ND	0.020	-	-	-
t-Butyl alcohol (TBA)	ND	0.050	-	-	-
n-Butyl benzene	ND	0.0050	-	-	-
sec-Butyl benzene	ND	0.0050	-	-	-
tert-Butyl benzene	ND	0.0050	-	-	-
Carbon Disulfide	ND	0.0050	-	-	-
Carbon Tetrachloride	ND	0.0050	-	-	-
Chlorobenzene	ND	0.0050	-	-	-
Chloroethane	ND	0.0050	-	-	-
Chloroform	ND	0.0050	-	-	-
Chloromethane	ND	0.0050	-	-	-
2-Chlorotoluene	ND	0.0050	-	-	-
4-Chlorotoluene	ND	0.0050	-	-	-
Dibromochloromethane	ND	0.0050	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00025	-	-	-
1,2-Dibromoethane (EDB)	ND	0.00010	-	-	-
Dibromomethane	ND	0.0050	-	-	-
1,2-Dichlorobenzene	ND	0.0050	-	-	-
1,3-Dichlorobenzene	ND	0.0050	-	-	-
1,4-Dichlorobenzene	ND	0.0050	-	-	-
Dichlorodifluoromethane	ND	0.0050	-	-	-
1,1-Dichloroethane	ND	0.0050	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	-	-	-
1,1-Dichloroethene	ND	0.00025	-	-	-
cis-1,2-Dichloroethene	ND	0.0050	-	-	-
trans-1,2-Dichloroethene	ND	0.0050	-	-	-
1,2-Dichloropropane	ND	0.0050	-	-	-
1,3-Dichloropropane	ND	0.0050	-	-	-
2,2-Dichloropropane	ND	0.0050	-	-	-
1,1-Dichloropropene	ND	0.0050	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/20/18	**BatchID:**	163574
Date Analyzed:	8/26/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163574

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0050	-	-	-
trans-1,3-Dichloropropene	ND	0.0050	-	-	-
Diisopropyl ether (DIPE)	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0050	-	-	-
Freon 113	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0050	-	-	-
Hexachloroethane	ND	0.0050	-	-	-
2-Hexanone	ND	0.0050	-	-	-
Isopropylbenzene	ND	0.0050	-	-	-
4-Isopropyl toluene	ND	0.0050	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0050	-	-	-
Methylene chloride	ND	0.010	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0050	-	-	-
Naphthalene	ND	0.0050	-	-	-
n-Propyl benzene	ND	0.0050	-	-	-
Styrene	ND	0.0050	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0050	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.00025	-	-	-
Tetrachloroethene	ND	0.00025	-	-	-
Toluene	ND	0.0050	-	-	-
1,2,3-Trichlorobenzene	ND	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.0050	-	-	-
1,1,1-Trichloroethane	ND	0.0050	-	-	-
1,1,2-Trichloroethane	ND	0.0050	-	-	-
Trichloroethene	ND	0.0050	-	-	-
Trichlorofluoromethane	ND	0.0050	-	-	-
1,2,3-Trichloropropane	ND	0.00025	-	-	-
1,2,4-Trimethylbenzene	ND	0.0050	-	-	-
1,3,5-Trimethylbenzene	ND	0.0050	-	-	-
Vinyl Chloride	ND	0.00025	-	-	-
Xylenes, Total	ND	0.0050	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/20/18	**BatchID:**	163574
Date Analyzed:	8/26/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163574

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	0.137		0.12	109	87-127
Toluene-d8	0.156		0.12	124	93-141
4-BFB	0.0151		0.012	121	84-137
Benzene-d6	0.107		0.10	107	67-131
Ethylbenzene-d10	0.120		0.10	120	78-153
1,2-DCB-d4	0.0842		0.10	84	63-109

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/20/18	**BatchID:**	163574
Date Analyzed:	8/26/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163574

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.267	0.267	0.20	133	134	48-156	0.146	30
tert-Amyl methyl ether (TAME)	0.00759	0.00740	0.010	76	74	56-115	2.60	30
Benzene	0.00897	0.00834	0.010	90	83	63-131	7.19	30
Bromobenzene	0.0120	0.00980	0.010	119	98	66-127	19.8	30
Bromochloromethane	0.00913	0.00868	0.010	91	87	64-124	4.96	30
Bromodichloromethane	0.00836	0.00795	0.010	84	80	64-120	4.98	30
Bromoform	0.00716	0.00726	0.010	72	73	48-92	1.31	30
Bromomethane	0.00712	0.00628	0.010	71	63	25-163	12.5	30
2-Butanone (MEK)	0.0371	0.0372	0.040	93	93	51-133	0	30
t-Butyl alcohol (TBA)	0.0453	0.0447	0.040	113	112	52-129	1.35	30
n-Butyl benzene	0.0154	0.0136	0.010	154	136	83-200	12.4	30
sec-Butyl benzene	0.0149	0.0131	0.010	149	131	81-199	12.4	30
tert-Butyl benzene	0.0142	0.0130	0.010	142	129	79-178	9.47	30
Carbon Disulfide	0.00920	0.00838	0.010	92	84	64-136	9.28	30
Carbon Tetrachloride	0.00967	0.00897	0.010	97	90	66-140	7.59	30
Chlorobenzene	0.00973	0.00889	0.010	97	89	73-116	9.00	30
Chloroethane	0.00879	0.00795	0.010	88	79	35-147	10.1	30
Chloroform	0.00999	0.00928	0.010	100	93	65-130	7.44	30
Chloromethane	0.00642	0.00584	0.010	64	58	30-137	9.59	30
2-Chlorotoluene	0.0118	0.0103	0.010	117	103	75-152	13.0	30
4-Chlorotoluene	0.0118	0.0105	0.010	118	105	71-148	12.2	30
Dibromochloromethane	0.00854	0.00805	0.010	85	80	61-106	5.97	30
1,2-Dibromo-3-chloropropane	0.00391	0.00373	0.0040	98	93	36-120	4.61	30
1,2-Dibromoethane (EDB)	0.00930	0.00898	0.010	93	90	67-118	3.61	30
Dibromomethane	0.00827	0.00794	0.010	83	79	61-116	3.99	30
1,2-Dichlorobenzene	0.00883	0.00770	0.010	88	77	59-106	13.7	30
1,3-Dichlorobenzene	0.0105	0.00962	0.010	105	96	75-129	8.97	30
1,4-Dichlorobenzene	0.0107	0.00923	0.010	107	92	66-127	14.4	30
Dichlorodifluoromethane	0.00359	0.00302	0.010	36	30	13-74	17.0	30
1,1-Dichloroethane	0.00997	0.00915	0.010	100	92	65-134	8.59	30
1,2-Dichloroethane (1,2-DCA)	0.00959	0.00919	0.010	96	92	57-131	4.29	30
1,1-Dichloroethene	0.0109	0.0101	0.010	109	101	62-127	8.03	30
cis-1,2-Dichloroethene	0.00942	0.00900	0.010	94	90	66-130	4.55	30
trans-1,2-Dichloroethene	0.00928	0.00885	0.010	93	89	60-131	4.77	30
1,2-Dichloropropane	0.00930	0.00882	0.010	93	88	63-127	5.31	30
1,3-Dichloropropane	0.00999	0.00970	0.010	100	97	68-124	2.91	30
2,2-Dichloropropane	0.0104	0.00944	0.010	104	94	63-150	9.49	30
1,1-Dichloropropene	0.0100	0.00940	0.010	100	94	67-134	6.58	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/20/18	**BatchID:**	163574
Date Analyzed:	8/26/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163574

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.00998	0.00916	0.010	100	92	65-138	8.60	30
trans-1,3-Dichloropropene	0.0102	0.00954	0.010	102	95	66-124	6.92	30
Diisopropyl ether (DIPE)	0.00916	0.00856	0.010	92	86	58-129	6.77	30
Ethylbenzene	0.0106	0.00950	0.010	106	95	73-145	10.7	30
Ethyl tert-butyl ether (ETBE)	0.00835	0.00807	0.010	83	81	62-125	3.41	30
Freon 113	0.00837	0.00749	0.010	84	75	55-116	11.1	30
Hexachlorobutadiene	0.0151	0.0124	0.010	151	124	75-178	19.8	30
Hexachloroethane	0.0120	0.0106	0.010	120	106	75-152	12.3	30
2-Hexanone	0.00753	0.00763	0.010	75	76	41-113	1.37	30
Isopropylbenzene	0.0156	0.0136	0.010	156	136	67-172	13.1	30
4-Isopropyl toluene	0.0144	0.0127	0.010	144	127	88-171	12.4	30
Methyl-t-butyl ether (MTBE)	0.00872	0.00861	0.010	87	86	58-122	1.33	30
Methylene chloride	0.00969	0.00907	0.010	97	91	57-140	6.60	30
4-Methyl-2-pentanone (MIBK)	0.00973	0.00908	0.010	97	91	42-117	6.87	30
Naphthalene	0.0114	0.00851	0.010	114, F2	85, F2	29-65	28.7	30
n-Propyl benzene	0.0140	0.0122	0.010	140	122	85-174	13.2	30
Styrene	0.0105	0.00852	0.010	105	85	63-126	20.7	30
1,1,1,2-Tetrachloroethane	0.00944	0.00872	0.010	94	87	68-131	7.88	30
1,1,2,2-Tetrachloroethane	0.00947	0.00906	0.010	95	91	45-121	4.43	30
Tetrachloroethene	0.0115	0.0104	0.010	115	104	65-150	9.40	30
Toluene	0.0114	0.0102	0.010	114	102	72-135	11.3	30
1,2,3-Trichlorobenzene	0.00716	0.00662	0.010	72	66	35-80	7.72	30
1,2,4-Trichlorobenzene	0.00920	0.00777	0.010	92	78	45-103	16.9	30
1,1,1-Trichloroethane	0.00986	0.00917	0.010	99	92	67-137	7.24	30
1,1,2-Trichloroethane	0.00998	0.00968	0.010	100	97	67-117	3.01	30
Trichloroethene	0.00945	0.00894	0.010	95	89	62-135	5.54	30
Trichlorofluoromethane	0.00764	0.00780	0.010	76	78	56-124	2.12	30
1,2,3-Trichloropropane	0.0110	0.0107	0.010	110	107	58-133	2.84	30
1,2,4-Trimethylbenzene	0.0129	0.0115	0.010	129	115	78-161	11.4	30
1,3,5-Trimethylbenzene	0.0135	0.0121	0.010	135	121	85-170	11.1	30
Vinyl Chloride	0.00813	0.00741	0.010	81	74	32-142	9.25	30
Xylenes, Total	0.0306	0.0253	0.030	102	84	70-137	18.7	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/20/18	**BatchID:**	163574
Date Analyzed:	8/26/18	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163574

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.141	0.141	0.12	113	113	87-127	0	30
Toluene-d8	0.188	0.182	0.12	150, F3	146, F3	93-141	3.16	30
4-BFB	0.0161	0.0154	0.012	129	123	84-137	4.69	30
Benzene-d6	0.106	0.102	0.10	106	102	67-131	3.87	30
Ethylbenzene-d10	0.123	0.114	0.10	123	114	78-153	7.51	30
1,2-DCB-d4	0.0852	0.0837	0.10	85	84	63-109	1.80	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0050	-	-	-
Benzene	ND	0.0050	-	-	-
Bromobenzene	ND	0.0050	-	-	-
Bromochloromethane	ND	0.0050	-	-	-
Bromodichloromethane	ND	0.0010	-	-	-
Bromoform	ND	0.0050	-	-	-
Bromomethane	ND	0.0050	-	-	-
2-Butanone (MEK)	ND	0.020	-	-	-
t-Butyl alcohol (TBA)	ND	0.050	-	-	-
n-Butyl benzene	ND	0.0050	-	-	-
sec-Butyl benzene	ND	0.0050	-	-	-
tert-Butyl benzene	ND	0.0050	-	-	-
Carbon Disulfide	ND	0.0050	-	-	-
Carbon Tetrachloride	ND	0.0050	-	-	-
Chlorobenzene	ND	0.0050	-	-	-
Chloroethane	ND	0.0050	-	-	-
Chloroform	ND	0.0050	-	-	-
Chloromethane	ND	0.0050	-	-	-
2-Chlorotoluene	ND	0.0050	-	-	-
4-Chlorotoluene	ND	0.0050	-	-	-
Dibromochloromethane	ND	0.0050	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00025	-	-	-
1,2-Dibromoethane (EDB)	ND	0.00010	-	-	-
Dibromomethane	ND	0.0050	-	-	-
1,2-Dichlorobenzene	ND	0.0050	-	-	-
1,3-Dichlorobenzene	ND	0.0050	-	-	-
1,4-Dichlorobenzene	ND	0.0050	-	-	-
Dichlorodifluoromethane	ND	0.0050	-	-	-
1,1-Dichloroethane	ND	0.0050	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.00025	-	-	-
1,1-Dichloroethene	ND	0.00025	-	-	-
cis-1,2-Dichloroethene	ND	0.0050	-	-	-
trans-1,2-Dichloroethene	ND	0.0050	-	-	-
1,2-Dichloropropane	ND	0.0050	-	-	-
1,3-Dichloropropane	ND	0.0050	-	-	-
2,2-Dichloropropane	ND	0.0050	-	-	-
1,1-Dichloropropene	ND	0.0050	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0050	-	-	-
trans-1,3-Dichloropropene	ND	0.0050	-	-	-
Diisopropyl ether (DIPE)	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0050	-	-	-
Freon 113	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0050	-	-	-
Hexachloroethane	ND	0.0050	-	-	-
2-Hexanone	ND	0.0050	-	-	-
Isopropylbenzene	ND	0.0050	-	-	-
4-Isopropyl toluene	ND	0.0050	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0050	-	-	-
Methylene chloride	ND	0.010	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0050	-	-	-
Naphthalene	ND	0.0050	-	-	-
n-Propyl benzene	ND	0.0050	-	-	-
Styrene	ND	0.0050	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0050	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.00025	-	-	-
Tetrachloroethene	ND	0.00025	-	-	-
Toluene	ND	0.0050	-	-	-
1,2,3-Trichlorobenzene	ND	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.0050	-	-	-
1,1,1-Trichloroethane	ND	0.0050	-	-	-
1,1,2-Trichloroethane	ND	0.0050	-	-	-
Trichloroethene	ND	0.0050	-	-	-
Trichlorofluoromethane	ND	0.0050	-	-	-
1,2,3-Trichloropropane	ND	0.00025	-	-	-
1,2,4-Trimethylbenzene	ND	0.0050	-	-	-
1,3,5-Trimethylbenzene	ND	0.0050	-	-	-
Vinyl Chloride	ND	0.00025	-	-	-
Xylenes, Total	ND	0.0050	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	0.140		0.12	112	87-127
Toluene-d8	0.156		0.12	125	93-141
4-BFB	0.0137		0.012	110	84-137
Benzene-d6	0.0939		0.10	94	67-131
Ethylbenzene-d10	0.0945		0.10	95	78-153
1,2-DCB-d4	0.0726		0.10	73	63-109

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.231	0.242	0.20	115	121	48-156	4.68	30
tert-Amyl methyl ether (TAME)	0.00812	0.00832	0.010	81	83	56-115	2.52	30
Benzene	0.0101	0.0103	0.010	101	103	63-131	2.48	30
Bromobenzene	0.00937	0.00911	0.010	94	91	66-127	2.81	30
Bromochloromethane	0.0101	0.0107	0.010	101	107	64-124	5.88	30
Bromodichloromethane	0.00892	0.00908	0.010	89	91	64-120	1.88	30
Bromoform	0.00579	0.00612	0.010	58	61	48-92	5.59	30
Bromomethane	0.00765	0.00814	0.010	77	81	25-163	6.19	30
2-Butanone (MEK)	0.0330	0.0342	0.040	83	85	51-133	3.48	30
t-Butyl alcohol (TBA)	0.0388	0.0394	0.040	97	99	52-129	1.76	30
n-Butyl benzene	0.0125	0.0126	0.010	125	126	83-200	0.872	30
sec-Butyl benzene	0.0117	0.0121	0.010	117	121	81-199	3.45	30
tert-Butyl benzene	0.0104	0.0111	0.010	104	111	79-178	6.43	30
Carbon Disulfide	0.00906	0.00920	0.010	91	92	64-136	1.54	30
Carbon Tetrachloride	0.00956	0.00994	0.010	96	99	66-140	3.95	30
Chlorobenzene	0.00921	0.00947	0.010	92	95	73-116	2.78	30
Chloroethane	0.0104	0.0107	0.010	104	107	35-147	2.64	30
Chloroform	0.0108	0.0111	0.010	108	111	65-130	3.29	30
Chloromethane	0.00670	0.00696	0.010	67	70	30-137	3.83	30
2-Chlorotoluene	0.0101	0.0105	0.010	101	105	75-152	4.12	30
4-Chlorotoluene	0.00979	0.0101	0.010	98	101	71-148	3.20	30
Dibromochloromethane	0.00799	0.00841	0.010	80	84	61-106	5.11	30
1,2-Dibromo-3-chloropropane	0.00269	0.00267	0.0040	67	67	36-120	0	30
1,2-Dibromoethane (EDB)	0.00882	0.00901	0.010	88	90	67-118	2.08	30
Dibromomethane	0.00940	0.00964	0.010	94	96	61-116	2.54	30
1,2-Dichlorobenzene	0.00798	0.00823	0.010	80	82	59-106	3.06	30
1,3-Dichlorobenzene	0.00965	0.00980	0.010	96	98	75-129	1.55	30
1,4-Dichlorobenzene	0.00904	0.00930	0.010	90	93	66-127	2.82	30
Dichlorodifluoromethane	0.00341	0.00359	0.010	34	36	13-74	5.17	30
1,1-Dichloroethane	0.0104	0.0108	0.010	104	108	65-134	4.06	30
1,2-Dichloroethane (1,2-DCA)	0.00988	0.0102	0.010	99	102	57-131	3.67	30
1,1-Dichloroethene	0.0105	0.0109	0.010	104	109	62-127	4.07	30
cis-1,2-Dichloroethene	0.0106	0.0111	0.010	106	111	66-130	4.22	30
trans-1,2-Dichloroethene	0.00982	0.0104	0.010	98	104	60-131	5.64	30
1,2-Dichloropropane	0.00966	0.0100	0.010	97	100	63-127	3.73	30
1,3-Dichloropropane	0.00854	0.00881	0.010	85	88	68-124	3.16	30
2,2-Dichloropropane	0.00968	0.0100	0.010	97	100	63-150	3.57	30
1,1-Dichloropropene	0.00963	0.0100	0.010	96	100	67-134	3.85	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.00882	0.00902	0.010	88	90	65-138	2.24	30
trans-1,3-Dichloropropene	0.00846	0.00861	0.010	85	86	66-124	1.83	30
Diisopropyl ether (DIPE)	0.00929	0.00968	0.010	93	97	58-129	4.07	30
Ethylbenzene	0.00964	0.0101	0.010	96	101	73-145	4.92	30
Ethyl tert-butyl ether (ETBE)	0.00856	0.00905	0.010	86	90	62-125	5.55	30
Freon 113	0.00838	0.00857	0.010	84	86	55-116	2.26	30
Hexachlorobutadiene	0.0106	0.0108	0.010	106	108	75-178	2.07	30
Hexachloroethane	0.00920	0.00889	0.010	92	89	75-152	3.41	30
2-Hexanone	0.00626	0.00639	0.010	63	64	41-113	2.01	30
Isopropylbenzene	0.0122	0.0124	0.010	122	124	67-172	1.89	30
4-Isopropyl toluene	0.0115	0.0119	0.010	115	119	88-171	2.78	30
Methyl-t-butyl ether (MTBE)	0.00913	0.00943	0.010	91	94	58-122	3.29	30
Methylene chloride	0.0116	0.0120	0.010	116	120	57-140	3.70	30
4-Methyl-2-pentanone (MIBK)	0.00634	0.00655	0.010	63	66	42-117	3.27	30
Naphthalene	0.00445	0.00434	0.010	45	43	29-65	2.67	30
n-Propyl benzene	0.0110	0.0115	0.010	110	115	85-174	4.48	30
Styrene	0.00821	0.00898	0.010	82	90	63-126	8.98	30
1,1,1,2-Tetrachloroethane	0.00941	0.00947	0.010	94	95	68-131	0.667	30
1,1,2,2-Tetrachloroethane	0.00830	0.00786	0.010	83	79	45-121	5.48	30
Tetrachloroethene	0.00950	0.00980	0.010	95	98	65-150	3.03	30
Toluene	0.00925	0.00940	0.010	92	94	72-135	1.67	30
1,2,3-Trichlorobenzene	0.00584	0.00557	0.010	58	56	35-80	4.69	30
1,2,4-Trichlorobenzene	0.00761	0.00749	0.010	76	75	45-103	1.66	30
1,1,1-Trichloroethane	0.00934	0.00964	0.010	93	96	67-137	3.20	30
1,1,2-Trichloroethane	0.00875	0.00905	0.010	87	90	67-117	3.33	30
Trichloroethene	0.00988	0.0102	0.010	99	102	62-135	3.36	30
Trichlorofluoromethane	0.00866	0.00892	0.010	87	89	56-124	3.00	30
1,2,3-Trichloropropane	0.00868	0.00826	0.010	87	83	58-133	4.99	30
1,2,4-Trimethylbenzene	0.0105	0.0105	0.010	105	105	78-161	0	30
1,3,5-Trimethylbenzene	0.0109	0.0109	0.010	109	109	85-170	0	30
Vinyl Chloride	0.00862	0.00904	0.010	86	90	32-142	4.83	30
Xylenes, Total	0.0269	0.0295	0.030	90	98	70-137	9.09	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.146	0.148	0.12	117	118	87-127	1.18	30
Toluene-d8	0.148	0.149	0.12	119	119	93-141	0	30
4-BFB	0.0134	0.0129	0.012	107	103	84-137	3.72	30
Benzene-d6	0.114	0.119	0.10	114	119	67-131	4.49	30
Ethylbenzene-d10	0.109	0.115	0.10	109	115	78-153	5.23	30
1,2-DCB-d4	0.0845	0.0864	0.10	85	86	63-109	2.14	30

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Acetone	0.225	0.255	0.20	ND	113	127	36-141	12.2	30
tert-Amyl methyl ether (TAME)	0.00748	0.00836	0.010	ND	75	84	46-105	11.1	30
Benzene	0.00891	0.00996	0.010	ND	89	100	46-124	11.2	30
Bromobenzene	0.00838	0.00952	0.010	ND	84	95	50-119	12.8	30
Bromochloromethane	0.00915	0.0106	0.010	ND	91	106	42-122	14.5	30
Bromodichloromethane	0.00807	0.00899	0.010	ND	81	90	48-112	10.9	30
Bromoform	0.00553	0.00620	0.010	ND	55	62	36-90	11.4	30
Bromomethane	0.00820	0.00910	0.010	ND	82	91	10-149	10.5	30
2-Butanone (MEK)	0.0380	0.0450	0.040	ND	95	112	43-114	16.9	30
t-Butyl alcohol (TBA)	0.0376	0.0432	0.040	ND	94	108	33-123	13.8	30
n-Butyl benzene	0.0118	0.0131	0.010	ND	118	131	40-185	10.4	30
sec-Butyl benzene	0.0114	0.0129	0.010	ND	113	129	40-183	12.5	30
tert-Butyl benzene	0.0102	0.0114	0.010	ND	102	114	44-168	11.5	30
Carbon Disulfide	0.00782	0.00892	0.010	ND	78	89	23-139	13.2	30
Carbon Tetrachloride	0.00852	0.00962	0.010	ND	85	96	43-133	12.2	30
Chlorobenzene	0.00879	0.00974	0.010	ND	88	97	51-115	10.3	30
Chloroethane	0.00865	0.00999	0.010	ND	87	100	16-138	14.4	30
Chloroform	0.00982	0.0110	0.010	ND	98	110	54-117	11.6	30
Chloromethane	0.00505	0.00551	0.010	ND	50	55	14-128	8.75	30
2-Chlorotoluene	0.00980	0.0110	0.010	ND	98	110	54-141	11.8	30
4-Chlorotoluene	0.00945	0.0106	0.010	ND	94	106	52-134	11.2	30
Dibromochloromethane	0.00764	0.00867	0.010	ND	76	87	46-102	12.6	30
1,2-Dibromo-3-chloropropane	0.00268	0.00298	0.0040	ND	67	74	16-120	10.4	30
1,2-Dibromoethane (EDB)	0.00846	0.00966	0.010	ND	85	97	48-113	13.2	30
Dibromomethane	0.00853	0.00964	0.010	ND	85	96	44-110	12.2	30
1,2-Dichlorobenzene	0.00771	0.00850	0.010	ND	77	85	43-106	9.71	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
1,3-Dichlorobenzene	0.00916	0.0103	0.010	ND	92	103	49-128	11.8	30
1,4-Dichlorobenzene	0.00860	0.00954	0.010	ND	86	95	48-120	10.4	30
Dichlorodifluoromethane	0.00299	0.00326	0.010	ND	30	33	8-63	8.54	30
1,1-Dichloroethane	0.00958	0.0108	0.010	ND	96	107	50-122	11.5	30
1,2-Dichloroethane (1,2-DCA)	0.00932	0.0103	0.010	ND	93	103	46-116	10.1	30
1,1-Dichloroethene	0.00937	0.0108	0.010	ND	94	108	37-124	13.9	30
cis-1,2-Dichloroethene	0.00971	0.0110	0.010	ND	97	110	47-123	12.1	30
trans-1,2-Dichloroethene	0.00896	0.0102	0.010	ND	90	102	31-131	12.6	30
1,2-Dichloropropane	0.00883	0.00984	0.010	ND	88	98	50-116	10.8	30
1,3-Dichloropropane	0.00850	0.00964	0.010	ND	85	96	52-115	12.6	30
2,2-Dichloropropane	0.00898	0.0100	0.010	ND	90	100	43-137	11.2	30
1,1-Dichloropropene	0.00899	0.0102	0.010	ND	90	102	43-126	12.3	30
cis-1,3-Dichloropropene	0.00854	0.00955	0.010	ND	85	95	35-134	11.2	30
trans-1,3-Dichloropropene	0.00797	0.00898	0.010	ND	80	90	35-124	12.0	30
Diisopropyl ether (DIPE)	0.00855	0.00951	0.010	ND	86	95	49-116	10.6	30
Ethylbenzene	0.00950	0.0106	0.010	ND	95	106	49-137	10.8	30
Ethyl tert-butyl ether (ETBE)	0.00817	0.00915	0.010	ND	82	91	50-113	11.3	30
Freon 113	0.00749	0.00847	0.010	ND	75	85	28-114	12.3	30
Hexachlorobutadiene	0.0103	0.0113	0.010	ND	103	113	22-180	9.03	30
Hexachloroethane	0.00803	0.00906	0.010	ND	80	91	28-158	12.1	30
2-Hexanone	0.00627	0.00748	0.010	ND	63	75	31-102	17.5	30
Isopropylbenzene	0.0114	0.0132	0.010	ND	114	131	50-153	14.4	30
4-Isopropyl toluene	0.0109	0.0121	0.010	ND	109	121	41-171	10.5	30
Methyl-t-butyl ether (MTBE)	0.00850	0.00951	0.010	ND	85	95	48-110	11.2	30
Methylene chloride	0.0102	0.0114	0.010	ND	102	114	42-127	11.4	30
4-Methyl-2-pentanone (MIBK)	0.00624	0.00721	0.010	ND	62	72	24-114	14.4	30
Naphthalene	0.00469	0.00471	0.010	ND	47	47	19-69	0	30
n-Propyl benzene	0.0104	0.0119	0.010	ND	104	119	46-168	13.0	30
Styrene	0.00831	0.00920	0.010	ND	83	92	42-122	10.2	30
1,1,1,2-Tetrachloroethane	0.00882	0.0100	0.010	ND	88	100	52-121	12.5	30
1,1,2,2-Tetrachloroethane	0.00713	0.00842	0.010	ND	71	84	27-116	16.6	30
Tetrachloroethene	0.00953	0.0108	0.010	0.0004189	91	104	37-149	12.3	30
Toluene	0.00909	0.0102	0.010	ND	79	90	52-124	11.1	30
1,2,3-Trichlorobenzene	0.00580	0.00588	0.010	ND	58	59	20-86	1.35	30
1,2,4-Trichlorobenzene	0.00721	0.00768	0.010	ND	72	77	24-107	6.36	30
1,1,1-Trichloroethane	0.00862	0.00970	0.010	ND	86	97	48-128	11.7	30
1,1,2-Trichloroethane	0.00860	0.00982	0.010	ND	86	98	51-110	13.2	30
Trichloroethene	0.00892	0.0101	0.010	ND	89	101	42-128	12.6	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163632
Date Analyzed:	8/22/18 - 8/27/18	**Extraction Method:**	SW5030B
Instrument:	GC18, GC38	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163632 1808922-005AMS/MSD

QC Summary Report for SW8260B

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Trichlorofluoromethane	0.00794	0.00908	0.010	ND	79	91	31-121	13.4	30
1,2,3-Trichloropropane	0.00777	0.00916	0.010	ND	78	92	50-115	16.4	30
1,2,4-Trimethylbenzene	0.00970	0.0109	0.010	ND	97	109	48-151	11.7	30
1,3,5-Trimethylbenzene	0.0102	0.0114	0.010	ND	102	114	51-159	11.3	30
Vinyl Chloride	0.00725	0.00803	0.010	0.0002972	69	77	11-136	10.3	30
Xylenes, Total	0.0277	0.0306	0.030	ND	92	102	38-141	10.1	30
Surrogate Recovery									
Dibromofluoromethane	0.150	0.151	0.12		120	121	82-136	0.341	30
Toluene-d8	0.159	0.159	0.12		127	127	92-139	0	30
4-BFB	0.0134	0.0138	0.012		107	110	82-135	2.56	30
Benzene-d6	0.110	0.114	0.10		110	114	55-122	3.46	30
Ethylbenzene-d10	0.111	0.114	0.10		111	115	58-141	2.93	30
1,2-DCB-d4	0.0861	0.0889	0.10		86	89	51-107	3.14	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163764
Date Analyzed:	8/23/18 - 8/27/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163764

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.14	0.25	-	-	-
Acenaphthylene	ND	0.14	0.25	-	-	-
Acetochlor	ND	0.25	0.25	-	-	-
Anthracene	ND	0.14	0.25	-	-	-
Benzidine	ND	0.23	1.3	-	-	-
Benzo (a) anthracene	ND	0.050	0.050	-	-	-
Benzo (a) pyrene	ND	0.0025	0.0025	-	-	-
Benzo (b) fluoranthene	ND	0.012	0.012	-	-	-
Benzo (g,h,i) perylene	ND	0.15	0.25	-	-	-
Benzo (k) fluoranthene	ND	0.16	0.25	-	-	-
Benzyl Alcohol	ND	0.51	1.3	-	-	-
1,1-Biphenyl	ND	0.15	0.25	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.14	0.25	-	-	-
Bis (2-chloroethyl) Ether	ND	0.0012	0.0025	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0012	0.0012	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.25	0.25	-	-	-
Bis (2-ethylhexyl) Phthalate	ND	0.13	0.25	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.16	0.25	-	-	-
Butylbenzyl Phthalate	ND	0.13	0.25	-	-	-
4-Chloroaniline	ND	0.0012	0.0012	-	-	-
4-Chloro-3-methylphenol	ND	0.12	0.25	-	-	-
2-Chloronaphthalene	ND	0.16	0.25	-	-	-
2-Chlorophenol	ND	0.0050	0.0050	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.15	0.25	-	-	-
Chrysene	ND	0.14	0.25	-	-	-
Dibenzo (a,h) anthracene	ND	0.0025	0.0025	-	-	-
Dibenzofuran	ND	0.13	0.25	-	-	-
Di-n-butyl Phthalate	ND	0.13	0.25	-	-	-
1,2-Dichlorobenzene	ND	0.12	0.25	-	-	-
1,3-Dichlorobenzene	ND	0.14	0.25	-	-	-
1,4-Dichlorobenzene	ND	0.025	0.025	-	-	-
3,3-Dichlorobenzidine	ND	0.0050	0.0050	-	-	-
2,4-Dichlorophenol	ND	0.0025	0.0025	-	-	-
Diethyl Phthalate	ND	0.010	0.010	-	-	-
2,4-Dimethylphenol	ND	0.025	0.025	-	-	-
Dimethyl Phthalate	ND	0.0025	0.0025	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.13	1.3	-	-	-
2,4-Dinitrophenol	ND	0.62	0.62	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163764
Date Analyzed:	8/23/18 - 8/27/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163764

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrotoluene	ND	0.025	0.025	-	-	-
2,6-Dinitrotoluene	ND	0.14	0.25	-	-	-
Di-n-octyl Phthalate	ND	0.14	0.50	-	-	-
1,2-Diphenylhydrazine	ND	0.16	0.25	-	-	-
Fluoranthene	ND	0.13	0.25	-	-	-
Fluorene	ND	0.14	0.25	-	-	-
Hexachlorobenzene	ND	0.025	0.025	-	-	-
Hexachlorobutadiene	ND	0.025	0.025	-	-	-
Hexachlorocyclopentadiene	ND	0.73	1.3	-	-	-
Hexachloroethane	ND	0.14	0.25	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.012	0.012	-	-	-
Isophorone	ND	0.12	0.25	-	-	-
2-Methylnaphthalene	ND	0.025	0.025	-	-	-
2-Methylphenol (o-Cresol)	ND	0.14	0.25	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.12	0.25	-	-	-
Naphthalene	ND	0.0025	0.0025	-	-	-
2-Nitroaniline	ND	0.62	1.3	-	-	-
3-Nitroaniline	ND	0.59	1.3	-	-	-
4-Nitroaniline	ND	0.55	1.3	-	-	-
Nitrobenzene	ND	0.14	0.25	-	-	-
2-Nitrophenol	ND	0.64	1.3	-	-	-
4-Nitrophenol	ND	0.41	1.3	-	-	-
N-Nitrosodiphenylamine	ND	0.16	0.25	-	-	-
N-Nitrosodi-n-propylamine	ND	0.012	0.012	-	-	-
Pentachlorophenol	ND	0.32	1.3	-	-	-
Phenanthrene	ND	0.14	0.25	-	-	-
Phenol	ND	0.0050	0.0050	-	-	-
Pyrene	ND	0.13	0.25	-	-	-
Pyridine	ND	0.25	0.25	-	-	-
1,2,4-Trichlorobenzene	ND	0.14	0.25	-	-	-
2,4,5-Trichlorophenol	ND	0.012	0.012	-	-	-
2,4,6-Trichlorophenol	ND	0.012	0.012	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163764
Date Analyzed:	8/23/18 - 8/27/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163764

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	5.03			5	101	30-130
Phenol-d5	4.91			5	98	30-130
Nitrobenzene-d5	5.18			5	103	30-130
2-Fluorobiphenyl	4.30			5	86	30-130
2,4,6-Tribromophenol	4.91			5	98	16-130
4-Terphenyl-d14	4.37			5	87	30-130

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163764
Date Analyzed:	8/23/18 - 8/27/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163764

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	4.00	3.90	5	80	78	32-118	2.42	30
Acenaphthylene	4.48	4.38	5	90	88	32-122	2.22	30
Anthracene	4.17	4.13	5	83	83	36-125	0	30
Benzidine	1.42	1.47	5	29	29	4-83	0	30
Benzo (a) anthracene	4.07	4.12	5	81	82	35-117	1.14	30
Benzo (a) pyrene	4.95	4.98	5	99	100	42-138	0.459	30
Benzo (b) fluoranthene	4.50	4.56	5	90	91	37-125	1.54	30
Benzo (g,h,i) perylene	4.65	4.64	5	93	93	45-146	0	30
Benzo (k) fluoranthene	4.21	4.21	5	84	84	39-124	0	30
Benzyl Alcohol	2.06	2.04	5	41	41	5-105	0	30
Bis (2-chloroethoxy) Methane	3.97	3.89	5	79	78	35-115	1.99	30
Bis (2-chloroethyl) Ether	3.80	3.74	5	76	75	35-105	1.81	30
Bis (2-chloroisopropyl) Ether	4.48	4.40	5	90	88	34-119	1.89	30
Bis (2-ethylhexyl) Adipate	4.43	4.31	5	89	86	27-117	2.76	30
Bis (2-ethylhexyl) Phthalate	4.16	4.13	5	83	83	34-124	0	30
4-Bromophenyl Phenyl Ether	4.21	3.96	5	84	79	33-112	6.10	30
Butylbenzyl Phthalate	4.64	4.51	5	93	90	35-127	2.83	30
4-Chloroaniline	2.43	2.56	5	49	51	12-77	5.45	30
4-Chloro-3-methylphenol	4.77	4.66	5	95	93	35-123	2.19	30
2-Chloronaphthalene	3.78	3.68	5	76	74	28-109	2.75	30
2-Chlorophenol	4.03	3.97	5	81	79	38-116	1.54	30
4-Chlorophenyl Phenyl Ether	4.19	4.10	5	84	82	33-122	2.18	30
Chrysene	3.89	3.96	5	78	79	37-116	1.64	30
Dibenzo (a,h) anthracene	4.50	4.51	5	90	90	43-141	0	30
Dibenzofuran	4.20	4.09	5	84	82	33-117	2.56	30
Di-n-butyl Phthalate	4.30	4.24	5	86	85	38-126	1.24	30
1,2-Dichlorobenzene	4.27	4.08	5	85	82	34-105	4.49	30
1,3-Dichlorobenzene	3.92	3.91	5	78	78	33-104	0	30
1,4-Dichlorobenzene	3.58	3.56	5	72	71	31-102	0.670	30
3,3-Dichlorobenzidine	2.47	2.57	5	49	51	14-84	4.22	30
2,4-Dichlorophenol	5.20	5.11	5	104	102	31-124	1.69	30
Diethyl Phthalate	4.39	4.27	5	88	85	35-118	2.89	30
2,4-Dimethylphenol	4.95	4.89	5	99	98	30-120	1.31	30
Dimethyl Phthalate	4.41	4.23	5	88	85	33-118	4.14	30
4,6-Dinitro-2-methylphenol	4.54	4.40	5	91	88	12-126	3.21	30
2,4-Dinitrophenol	5.25	5.11	5	105	102	8-130	2.75	30
2,4-Dinitrotoluene	4.60	4.53	5	92	91	38-117	1.51	30
2,6-Dinitrotoluene	4.62	4.49	5	92	90	35-121	2.86	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163764
Date Analyzed:	8/23/18 - 8/27/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163764

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Di-n-octyl Phthalate	4.70	4.62	5	94	92	42-150	1.60	30
1,2-Diphenylhydrazine	4.48	4.35	5	90	87	30-117	2.86	30
Fluoranthene	4.15	4.19	5	83	84	38-126	0.939	30
Fluorene	4.25	4.17	5	85	83	34-118	1.86	30
Hexachlorobenzene	4.08	4.00	5	82	80	30-130	1.83	30
Hexachlorobutadiene	4.08	3.98	5	82	80	33-121	2.39	30
Hexachlorocyclopentadiene	2.63	2.33	5	53	47	8-89	12.1	30
Hexachloroethane	3.99	3.88	5	80	78	32-106	3.02	30
Indeno (1,2,3-cd) pyrene	4.64	4.64	5	93	93	43-138	0	30
Isophorone	3.30	3.34	5	66	67	26-92	1.29	30
2-Methylnaphthalene	4.26	4.20	5	85	84	30-121	1.57	30
2-Methylphenol (o-Cresol)	3.96	3.92	5	79	79	34-114	0	30
3 & 4-Methylphenol (m,p-Cresol)	3.78	3.66	5	76	73	26-130	3.20	30
Naphthalene	3.93	3.87	5	79	77	33-113	1.60	30
2-Nitroaniline	4.96	4.73	5	99	95	29-115	4.74	30
3-Nitroaniline	4.28	4.20	5	86	84	25-93	1.86	30
4-Nitroaniline	5.01	5.00	5	100	100	31-108	0	30
Nitrobenzene	4.51	4.33	5	90	87	33-122	4.02	30
2-Nitrophenol	4.70	4.71	5	94	94	32-121	0	30
4-Nitrophenol	4.71	4.71	5	94	94	27-102	0	30
N-Nitrosodiphenylamine	2.35	2.27	5	47	45	43-64	3.43	30
N-Nitrosodi-n-propylamine	4.52	4.39	5	90	88	25-108	2.91	30
Pentachlorophenol	7.29	7.19	5	146, F2	144, F2	28-134	1.43	30
Phenanthrene	3.77	3.73	5	75	75	36-123	0	30
Phenol	3.89	3.85	5	78	77	33-107	0.960	30
Pyrene	4.08	4.04	5	82	81	38-124	0.930	30
Pyridine	3.54	3.39	5	71	68	30-130	4.08	30
1,2,4-Trichlorobenzene	4.34	4.32	5	87	86	34-121	0.274	30
2,4,5-Trichlorophenol	4.75	4.61	5	95	92	31-126	3.06	30
2,4,6-Trichlorophenol	4.79	4.61	5	96	92	32-128	3.86	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163764
Date Analyzed:	8/23/18 - 8/27/18	**Extraction Method:**	SW3550B/3640A
Instrument:	GC21	**Analytical Method:**	SW8270C
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163764

QC Summary Report for SW8270C (Low Level) w/ GPC

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	4.20	4.44	5	84	89	31-108	5.59	30
Phenol-d5	4.20	4.39	5	84	88	32-106	4.48	30
Nitrobenzene-d5	4.69	4.90	5	94	98	27-109	4.48	30
2-Fluorobiphenyl	4.16	4.14	5	83	83	26-100	0	30
2,4,6-Tribromophenol	5.17	5.32	5	103	106	25-106	2.97	30
4-Terphenyl-d14	3.97	4.14	5	79	83	27-113	4.01	30

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163616
Date Analyzed:	8/21/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163616

QC Summary Report for Metals

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.50	-	-	-
Arsenic	ND	0.50	-	-	-
Barium	ND	5.0	-	-	-
Beryllium	ND	0.50	-	-	-
Cadmium	ND	0.25	-	-	-
Chromium	ND	0.50	-	-	-
Cobalt	ND	0.50	-	-	-
Copper	ND	0.50	-	-	-
Lead	ND	0.50	-	-	-
Mercury	ND	0.050	-	-	-
Molybdenum	ND	0.50	-	-	-
Nickel	ND	0.50	-	-	-
Selenium	ND	0.50	-	-	-
Silver	ND	0.50	-	-	-
Thallium	ND	0.50	-	-	-
Vanadium	ND	0.50	-	-	-
Zinc	ND	5.0	-	-	-
Surrogate Recovery					
Terbium	490		500	98	70-130

(Cont.)

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163616
Date Analyzed:	8/21/18	**Extraction Method:**	SW3050B
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163616

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	43.6	42.1	50	87	84	75-125	3.31	20
Arsenic	47.8	46.8	50	96	94	75-125	2.16	20
Barium	492	479	500	98	96	75-125	2.72	20
Beryllium	46.8	44.9	50	94	90	75-125	4.12	20
Cadmium	49.2	47.4	50	98	95	75-125	3.75	20
Chromium	50.1	48.6	50	100	97	75-125	3.02	20
Cobalt	51.5	48.6	50	103	97	75-125	5.81	20
Copper	50.1	48.8	50	100	98	75-125	2.69	20
Lead	47.6	46.3	50	95	93	75-125	2.72	20
Mercury	1.22	1.18	1.25	98	94	75-125	3.66	20
Molybdenum	44.3	42.9	50	89	86	75-125	3.21	20
Nickel	50.6	49.6	50	101	99	75-125	1.86	20
Selenium	48.0	46.8	50	96	94	75-125	2.74	20
Silver	46.0	44.4	50	92	89	75-125	3.49	20
Thallium	45.9	44.7	50	92	89	75-125	2.78	20
Vanadium	49.3	47.6	50	99	95	75-125	3.32	20
Zinc	494	483	500	99	97	75-125	2.21	20
Surrogate Recovery								
Terbium	494	479	500	99	96	70-130	2.98	20

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/23/18	**BatchID:**	163801
Date Analyzed:	8/24/18	**Extraction Method:**	SM4500-CN⁻ E
Instrument:	WC_SKALAR	**Analytical Method:**	SM4500-CN⁻ CE
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163801 1808922-001AMS/MSD

QC Summary Report for SM4500-CN⁻ ABCE

Analyte	MB Result	RL			
Total Cyanide	ND	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Total Cyanide	0.811	0.813	0.80	101	102	85-115	0.312	20

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Total Cyanide	0.835	0.842	0.80	ND	104	105	80-120	0.772	20

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163604
Date Analyzed:	8/21/18	**Extraction Method:**	SW5030B
Instrument:	GC3	**Analytical Method:**	SW8021B/8015Bm
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163604

QC Summary Report for SW8021B/8015Bm

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g) (C6-C12)	ND	1.0	-	-	-
MTBE	ND	0.050	-	-	-
Benzene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
m,p-Xylene	ND	0.010	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes	ND	0.0050	-	-	-
Surrogate Recovery					
2-Fluorotoluene	0.0961		0.10	96	75-134

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(btex)	0.673	0.692	0.60	112	115	82-118	2.75	20
MTBE	0.0884	0.0865	0.10	88	87	61-119	2.08	20
Benzene	0.0992	0.102	0.10	99	102	77-128	2.38	20
Toluene	0.102	0.104	0.10	102	104	74-132	2.32	20
Ethylbenzene	0.102	0.103	0.10	102	103	84-127	1.23	20
m,p-Xylene	0.206	0.209	0.20	103	105	80-120	1.35	20
o-Xylene	0.101	0.102	0.10	101	102	80-120	1.54	20
Xylenes	0.307	0.311	0.30	102	104	86-129	1.41	20
Surrogate Recovery								
2-Fluorotoluene	0.0929	0.0949	0.10	93	95	75-134	2.10	20

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163652
Date Analyzed:	8/23/18	**Extraction Method:**	CA Title 22
Instrument:	ICP-MS2	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163652

QC Summary Report for Metals (STLC)

Analyte	MB Result	RL			
Lead	ND	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Lead	9.40	9.27	10	94	93	75-125	1.31	20

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	8/21/18	**BatchID:**	163625
Date Analyzed:	8/22/18	**Extraction Method:**	SW3550B/3630C
Instrument:	GC9b	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-163625 1808922-005AMS/MSD

QC Report for SW8015B w/ Silica Gel Clean-Up

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	1.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	5.0	-	-	-
Surrogate Recovery					
C9	19.5		25	78	72-122

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	34.2	35.9	40	86	90	75-128	4.71	30
Surrogate Recovery								
C9	19.4	19.5	25	77	78	72-122	0.904	30

Analyte	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	36.0	36.8	40	1.970	85	87	71-134	2.19	30
Surrogate Recovery									
C9	19.5	19.6	25		78	79	78-126	0.533	30

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1808922 **ClientCode: SCSD**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Jim Ritchie
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
(925) 426-0080 FAX: (925) 426-0707

Email: jritchie@scsengineers.com; mgrisham@sc
cc/3rd Party:
PO:
Project: 01217334.01; Balba

Bill to:
Accounts Payable
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
MGrisham@SCSEngineers.com

Requested TAT: 5 days;

Date Received: **08/17/2018**
Date Logged: **08/21/2018**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below) 1	2	3	4	5	6	7	8	9	10	11	12
1808922-001	P1 0.75, 2.5	Soil	8/17/2018 10:40	☐	A	A	A	A	A	A	A	A	A			
1808922-002	P2 0.75, 2.5	Soil	8/17/2018 10:11	☐	A	A	A	A	A	A	A	A	A			
1808922-003	P3 0.75, 2.5	Soil	8/17/2018 11:18	☐	A	A	A	A	A	A	A	A	A			
1808922-004	P4 0.75, 2.5	Soil	8/17/2018 11:48	☐	A	A	A	A	A	A	A	A	A			
1808922-005	P5 9.5 & P6 0.75, 5	Soil	8/17/2018 12:55	☐	A	A	A	A	A	A	A	A	A			

Test Legend:

1	7199_TTLC_LL_S [J]	2	8081pcB_ESL_LL_S	3	8260B_Scan-SIM_S	4	8270_SCSM_S [J]
5	CAM17MS_TTLC_S	6	CN_S	7	G-MBTEX_S	8	PBMS_STLC_S
9	TPH(DMO)WSG_S	10		11		12	

Prepared by: Maria Venegas

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup Multi RangeWSG_S.

Comments: Samples of HOLD 8/21/18 STAT.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: SCS ENGINEERS
Client Contact: Jim Ritchie
Contact's Email: jritchie@scsengineers.com; mgrisham@scseng.com

Project: 01217334.01; Balba
Comments: Samples of HOLD 8/21/18 STAT.

Work Order: 1808922
QC Level: LEVEL 2
Date Logged: 8/21/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808922-001A	P1 0.75, 2.5	Soil	SW6020 (Lead) (STLC)	2 / (2:1)	Acetate Liner	☐	8/17/2018 10:40	5 days*		☐	
			Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up			☐		5 days		☐	
			SM4500-CN⁻ ABCE (Cyanide, Total)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan SIM)			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)			☐		5 days		☐	
1808922-002A	P2 0.75, 2.5	Soil	SW6020 (Lead) (STLC)	2 / (2:1)	Acetate Liner	☐	8/17/2018 10:11	5 days*		☐	
			Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up			☐		5 days		☐	
			SM4500-CN⁻ ABCE (Cyanide, Total)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan SIM)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: SCS ENGINEERS
Client Contact: Jim Ritchie
Contact's Email: jritchie@scsengineers.com; mgrisham@scseng.com

Project: 01217334.01; Balba
Comments: Samples of HOLD 8/21/18 STAT.

Work Order: 1808922
QC Level: LEVEL 2
Date Logged: 8/21/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808922-002A	P2 0.75, 2.5	Soil	SW8081A/8082 (OC Pesticides+PCBs) ESLs	2 / (2:1)	Acetate Liner	☐	8/17/2018 10:11	5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)			☐		5 days		☐	
1808922-003A	P3 0.75, 2.5	Soil	SW6020 (Lead) (STLC)	2 / (2:1)	Acetate Liner	☐	8/17/2018 11:18	5 days*		☐	
			Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up			☐		5 days		☐	
			SM4500-CN⁻ ABCE (Cyanide, Total)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan SIM)			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)			☐		5 days		☐	
1808922-004A	P4 0.75, 2.5	Soil	SW6020 (Lead) (STLC)	2 / (2:1)	Acetate Liner	☐	8/17/2018 11:48	5 days*		☐	
			Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up			☐		5 days		☐	
			SM4500-CN⁻ ABCE (Cyanide, Total)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

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WORK ORDER SUMMARY

Client Name: SCS ENGINEERS
Client Contact: Jim Ritchie
Contact's Email: jritchie@scsengineers.com; mgrisham@scseng.com

Project: 01217334.01; Balba
Comments: Samples of HOLD 8/21/18 STAT.

Work Order: 1808922
QC Level: LEVEL 2
Date Logged: 8/21/2018

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	De-chlorinated	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808922-004A	P4 0.75, 2.5	Soil	SW8270C (Low Level SVOCs) with GPC Cleanup	2 / (2:1)	Acetate Liner	☐	8/17/2018 11:48	5 days		☐	
			SW8260B (VOCs, Scan SIM)			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)			☐		5 days		☐	
1808922-005A	P5 9.5 & P6 0.75, 5	Soil	SW6020 (Lead) (STLC)	3 / (3:1)	Acetate Liner	☐	8/17/2018 12:55	5 days*		☐	
			Multi-Range TPH(g,d,mo) w/ S.G. Clean-Up			☐		5 days		☐	
			SM4500-CN⁻ ABCE (Cyanide, Total)			☐		5 days		☐	
			SW6020 (CAM 17)			☐		5 days		☐	
			SW8270C (Low Level SVOCs) with GPC Cleanup			☐		5 days		☐	
			SW8260B (VOCs, Scan SIM)			☐		5 days		☐	
			SW8081A/8082 (OC Pesticides+PCBs) ESLs			☐		5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)			☐		5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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General COC

MAI Work Order # 1808922

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Telephone: (877) 252-9262 / Fax: (925) 252-9269
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CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush | 2 Day Rush | 3 Day Rush | STD ✓ | Quote #
J-Flag / MDL | ESL | Cleanup Approved | Bottle Order #
Delivery Format: PDF | GeoTracker EDF | EDD | Write On (DW) | EQuIS

Report To: Jim Ritchie Bill To:
Company: SCS ENGINEERS
Email: jritchie@scsengineers.com
Alt Email: Tele: 650 995-3312
Project Name: Balboa Reservoir Project #:
Project Location: South San Francisco PO # 40217344.01
Sampler Signature:

Analysis Requested

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	BTEX & TPH as Gas (8021/ 8015) MTBE	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)*	Metals (200.8 / 6020)	Baylands Requirements	Lab to filter sample for dissolved metals analysis	Hexavalent Chromium	Soluble Lead	Cyanide	
P1 (0.75, 2.5, 5, 7, 9.5)	8/17	1040	5	S		X		X				X	X	X	X		X				X	X	X	
P2 (0.75, 2.5, 5, 7, 9.5)	8/17	1011	5	S		X		X				X	X	X	X		X				X	X	X	
P3 (0.75, 2.5, 5, 7, 9.5)	8/17	1118	5	S		X		X				X	X	X	X		X				X	X	X	
P4 (0.75, 2.5, 5, 7, 9.5)	8/17	1148	5	S		X		X				X	X	X	X		X				X	X	X	
P5 (0.75, 2.5, 5.5, 7, 9.5)	8/17	1227	5	S		X		X				X	X	X	X		X				X	X	X	
P6 (0.75, 2.5, 5, 7, 9.5)	8/17	1255	5	S		X		X				X	X	X	X		X				X	X	X	

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Natasha Macanhan / SCS	8/17	1539		8/17/18	1539

Comments / Instructions

Put On Hold

Remove from hold and analyze as listed below. 8/21/18

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 3.7 °C Initials

Please composite: 1) P1 0.75 and 2.5, 2) P2 0.75 and 2.5, 3) P3 0.75 and 2.5, P4 0.75 and 2.5, and 5) P5 ~~0.75 and 5.5~~ 9.5, P6 ~~2.5 and 9.5~~ 0.7 + 5. Per J.R

Page ___ of ___

Total of five composited samples.
Run for TPHg, d, mo (silica gel prep), VOCs including BTEX, Organochorine Pesticides, PCBs, SVOCs, CAM 17 Metals and cyanide, solutble lead, and hexavalent chromium.

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Sample Receipt Checklist

Client Name:	**SCS Engineers**	Date and Time Received	**8/17/2018 15:39**
Project:	**01217334.01; Balba**	Date Logged:	**8/21/2018**
		Received by:	Kena Ponce
WorkOrder №:	**1808922** Matrix: Soil	Logged by:	Maria Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Sample IDs noted by Client on COC?	Yes ☑	No ☐	
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐	
Sampler's name noted on COC?	Yes ☑	No ☐	
COC agrees with Quote?	Yes ☐	No ☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	NA ☐
Samples Received on Ice?	Yes ☑	No ☐	
	(Ice Type: WET ICE)		
Sample/Temp Blank temperature	Temp: 3.7°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	NA ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
pH acceptable upon receipt (Metal: <2; 522: <4; 218.7: >8)?	Yes ☐	No ☐	NA ☑
UCMR Samples:			
pH tested and acceptable upon receipt (200.8: ≤2; 525.3: ≤4; 530: ≤7; 541: <3; 544: <6.5 & 7.5)?	Yes ☐	No ☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L)?	Yes ☐	No ☐	NA ☑

Comments: Method SW8270C (Low Level SVOCs) with GPC Cleanup was received with temperature condition not met. Method SW8081A/8082 (OC Pesticides+PCBs) ESLs was received with temperature condition not met. Method SW8260B (VOCs, Scan SIM) was received with temperature condition not met.

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Analytical Report

WorkOrder: 1808922 A

Report Created for: SCS Engineers

7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566

Project Contact: Jim Ritchie
Project P.O.:
Project: 01217334.01; Balba

Project Received: 08/17/2018

Analytical Report reviewed & approved for release on 10/02/2018 by:

Yen Cao
Project Manager

The report shall not be reproduced except in full, without the written approval of the laboratory. The analytical results relate only to the items tested. Results reported conform to the most current NELAP standards, where applicable, unless otherwise stated in the case narrative.

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Glossary of Terms & Qualifier Definitions

Client: SCS Engineers
Project: 01217334.01; Balba
WorkOrder: 1808922 A

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
N/A	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PDSD	Post Digestion Spike Duplicate
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit (The RL is the lowest calibration standard in a multipoint calibration.)
RPD	Relative Percent Deviation
RRT	Relative Retention Time
SPK Val	Spike Value
SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Glossary of Terms & Qualifier Definitions

Client: SCS Engineers
Project: 01217334.01; Balba
WorkOrder: 1808922 A

Analytical Qualifiers

H	Samples were analyzed out of holding time.
J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.

Quality Control Qualifiers

F2	LCS/LCSD recovery and/or RPD is out of acceptance criteria.

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3060A
Date Prepared:	10/1/18	**Analytical Method:**	SW7199
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Hexavalent chromium by Alkaline Digestion and IC Analysis

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 0.75	**1808922-003B**	**Soil**	**08/17/2018 11:18**	**IC2 18100126.CHW**	**165851**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.22**	H	0.10	0.20	1	10/01/2018 20:37

Analyst(s): AO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P3 2.5	**1808922-003C**	**Soil**	**08/17/2018 11:18**	**IC2 18100127.CHW**	**165851**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.17**	JH	0.10	0.20	1	10/01/2018 20:53

Analyst(s): AO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5	**1808922-005B**	**Soil**	**08/17/2018 12:22**	**IC2 18100128.CHW**	**165851**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.28**	H	0.10	0.20	1	10/01/2018 21:08

Analyst(s): AO

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 0.75	**1808922-005C**	**Soil**	**08/17/2018 12:55**	**IC2 18100129.CHW**	**165851**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.55**	H	0.10	0.20	1	10/01/2018 21:24

Analyst(s): AO

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW3060A
Date Prepared:	10/1/18	**Analytical Method:**	SW7199
Project:	01217334.01; Balba	**Unit:**	mg/Kg

Hexavalent chromium by Alkaline Digestion and IC Analysis

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 5	**1808922-005D**	**Soil**	**08/17/2018 12:55**	**IC2 18100130.CHW**	**165851**

Analytes	Result	Qualifiers	MDL	RL	DF	Date Analyzed
Hexavalent chromium	**0.34**	H	0.10	0.20	1	10/01/2018 21:39

Analyst(s): AO

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5	**1808922-005B**	**Soil**	**08/17/2018 12:22**	**GC18 09281813.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	09/28/2018 16:44
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	09/28/2018 16:44
Benzene	ND	H	0.0050	1	09/28/2018 16:44
Bromobenzene	ND	H	0.0050	1	09/28/2018 16:44
Bromochloromethane	ND	H	0.0050	1	09/28/2018 16:44
Bromodichloromethane	ND	H	0.0050	1	09/28/2018 16:44
Bromoform	ND	H	0.0050	1	09/28/2018 16:44
Bromomethane	ND	H	0.0050	1	09/28/2018 16:44
2-Butanone (MEK)	ND	H	0.020	1	09/28/2018 16:44
t-Butyl alcohol (TBA)	ND	H	0.050	1	09/28/2018 16:44
n-Butyl benzene	ND	H	0.0050	1	09/28/2018 16:44
sec-Butyl benzene	ND	H	0.0050	1	09/28/2018 16:44
tert-Butyl benzene	ND	H	0.0050	1	09/28/2018 16:44
Carbon Disulfide	ND	H	0.0050	1	09/28/2018 16:44
Carbon Tetrachloride	ND	H	0.0050	1	09/28/2018 16:44
Chlorobenzene	ND	H	0.0050	1	09/28/2018 16:44
Chloroethane	ND	H	0.0050	1	09/28/2018 16:44
Chloroform	ND	H	0.0050	1	09/28/2018 16:44
Chloromethane	ND	H	0.0050	1	09/28/2018 16:44
2-Chlorotoluene	ND	H	0.0050	1	09/28/2018 16:44
4-Chlorotoluene	ND	H	0.0050	1	09/28/2018 16:44
Dibromochloromethane	ND	H	0.0050	1	09/28/2018 16:44
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	09/28/2018 16:44
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	09/28/2018 16:44
Dibromomethane	ND	H	0.0050	1	09/28/2018 16:44
1,2-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 16:44
1,3-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 16:44
1,4-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 16:44
Dichlorodifluoromethane	ND	H	0.0050	1	09/28/2018 16:44
1,1-Dichloroethane	ND	H	0.0050	1	09/28/2018 16:44
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	09/28/2018 16:44
1,1-Dichloroethene	ND	H	0.0050	1	09/28/2018 16:44
cis-1,2-Dichloroethene	ND	H	0.0050	1	09/28/2018 16:44
trans-1,2-Dichloroethene	ND	H	0.0050	1	09/28/2018 16:44
1,2-Dichloropropane	ND	H	0.0050	1	09/28/2018 16:44
1,3-Dichloropropane	ND	H	0.0050	1	09/28/2018 16:44
2,2-Dichloropropane	ND	H	0.0050	1	09/28/2018 16:44

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5	**1808922-005B**	**Soil**	**08/17/2018 12:22**	**GC18 09281813.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	09/28/2018 16:44
cis-1,3-Dichloropropene	ND	H	0.0050	1	09/28/2018 16:44
trans-1,3-Dichloropropene	ND	H	0.0050	1	09/28/2018 16:44
Diisopropyl ether (DIPE)	ND	H	0.0050	1	09/28/2018 16:44
Ethylbenzene	ND	H	0.0050	1	09/28/2018 16:44
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	09/28/2018 16:44
Freon 113	ND	H	0.0050	1	09/28/2018 16:44
Hexachlorobutadiene	ND	H	0.0050	1	09/28/2018 16:44
Hexachloroethane	ND	H	0.0050	1	09/28/2018 16:44
2-Hexanone	ND	H	0.0050	1	09/28/2018 16:44
Isopropylbenzene	ND	H	0.0050	1	09/28/2018 16:44
4-Isopropyl toluene	ND	H	0.0050	1	09/28/2018 16:44
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	09/28/2018 16:44
Methylene chloride	ND	H	0.010	1	09/28/2018 16:44
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	09/28/2018 16:44
Naphthalene	ND	H	0.0050	1	09/28/2018 16:44
n-Propyl benzene	ND	H	0.0050	1	09/28/2018 16:44
Styrene	ND	H	0.0050	1	09/28/2018 16:44
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	09/28/2018 16:44
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	09/28/2018 16:44
Tetrachloroethene	ND	H	0.0050	1	09/28/2018 16:44
Toluene	ND	H	0.0050	1	09/28/2018 16:44
1,2,3-Trichlorobenzene	ND	H	0.0050	1	09/28/2018 16:44
1,2,4-Trichlorobenzene	ND	H	0.0050	1	09/28/2018 16:44
1,1,1-Trichloroethane	ND	H	0.0050	1	09/28/2018 16:44
1,1,2-Trichloroethane	ND	H	0.0050	1	09/28/2018 16:44
Trichloroethene	ND	H	0.0050	1	09/28/2018 16:44
Trichlorofluoromethane	ND	H	0.0050	1	09/28/2018 16:44
1,2,3-Trichloropropane	ND	H	0.0050	1	09/28/2018 16:44
1,2,4-Trimethylbenzene	ND	H	0.0050	1	09/28/2018 16:44
1,3,5-Trimethylbenzene	ND	H	0.0050	1	09/28/2018 16:44
Vinyl Chloride	ND	H	0.0050	1	09/28/2018 16:44
m,p-Xylene	ND	H	0.0050	1	09/28/2018 16:44
o-Xylene	ND	H	0.0050	1	09/28/2018 16:44
Xylenes, Total	ND	H	0.0050	1	09/28/2018 16:44

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P5 9.5	**1808922-005B**	**Soil**	**08/17/2018 12:22**	**GC18 09281813.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	
Dibromofluoromethane	94	H	82-136	09/28/2018 16:44
Toluene-d8	123	H	92-139	09/28/2018 16:44
4-BFB	95	H	82-135	09/28/2018 16:44
Benzene-d6	100	H	55-122	09/28/2018 16:44
Ethylbenzene-d10	112	H	58-141	09/28/2018 16:44
1,2-DCB-d4	76	H	51-107	09/28/2018 16:44

Analyst(s): TK

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 0.75	**1808922-005C**	**Soil**	**08/17/2018 12:55**	**GC18 09281814.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	09/28/2018 17:26
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	09/28/2018 17:26
Benzene	ND	H	0.0050	1	09/28/2018 17:26
Bromobenzene	ND	H	0.0050	1	09/28/2018 17:26
Bromochloromethane	ND	H	0.0050	1	09/28/2018 17:26
Bromodichloromethane	ND	H	0.0050	1	09/28/2018 17:26
Bromoform	ND	H	0.0050	1	09/28/2018 17:26
Bromomethane	ND	H	0.0050	1	09/28/2018 17:26
2-Butanone (MEK)	ND	H	0.020	1	09/28/2018 17:26
t-Butyl alcohol (TBA)	ND	H	0.050	1	09/28/2018 17:26
n-Butyl benzene	ND	H	0.0050	1	09/28/2018 17:26
sec-Butyl benzene	ND	H	0.0050	1	09/28/2018 17:26
tert-Butyl benzene	ND	H	0.0050	1	09/28/2018 17:26
Carbon Disulfide	ND	H	0.0050	1	09/28/2018 17:26
Carbon Tetrachloride	ND	H	0.0050	1	09/28/2018 17:26
Chlorobenzene	ND	H	0.0050	1	09/28/2018 17:26
Chloroethane	ND	H	0.0050	1	09/28/2018 17:26
Chloroform	ND	H	0.0050	1	09/28/2018 17:26
Chloromethane	ND	H	0.0050	1	09/28/2018 17:26
2-Chlorotoluene	ND	H	0.0050	1	09/28/2018 17:26
4-Chlorotoluene	ND	H	0.0050	1	09/28/2018 17:26
Dibromochloromethane	ND	H	0.0050	1	09/28/2018 17:26
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	09/28/2018 17:26
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	09/28/2018 17:26
Dibromomethane	ND	H	0.0050	1	09/28/2018 17:26
1,2-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 17:26
1,3-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 17:26
1,4-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 17:26
Dichlorodifluoromethane	ND	H	0.0050	1	09/28/2018 17:26
1,1-Dichloroethane	ND	H	0.0050	1	09/28/2018 17:26
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	09/28/2018 17:26
1,1-Dichloroethene	ND	H	0.0050	1	09/28/2018 17:26
cis-1,2-Dichloroethene	ND	H	0.0050	1	09/28/2018 17:26
trans-1,2-Dichloroethene	ND	H	0.0050	1	09/28/2018 17:26
1,2-Dichloropropane	ND	H	0.0050	1	09/28/2018 17:26
1,3-Dichloropropane	ND	H	0.0050	1	09/28/2018 17:26
2,2-Dichloropropane	ND	H	0.0050	1	09/28/2018 17:26

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 0.75	**1808922-005C**	**Soil**	**08/17/2018 12:55**	**GC18 09281814.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	09/28/2018 17:26
cis-1,3-Dichloropropene	ND	H	0.0050	1	09/28/2018 17:26
trans-1,3-Dichloropropene	ND	H	0.0050	1	09/28/2018 17:26
Diisopropyl ether (DIPE)	ND	H	0.0050	1	09/28/2018 17:26
Ethylbenzene	ND	H	0.0050	1	09/28/2018 17:26
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	09/28/2018 17:26
Freon 113	ND	H	0.0050	1	09/28/2018 17:26
Hexachlorobutadiene	ND	H	0.0050	1	09/28/2018 17:26
Hexachloroethane	ND	H	0.0050	1	09/28/2018 17:26
2-Hexanone	ND	H	0.0050	1	09/28/2018 17:26
Isopropylbenzene	ND	H	0.0050	1	09/28/2018 17:26
4-Isopropyl toluene	ND	H	0.0050	1	09/28/2018 17:26
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	09/28/2018 17:26
Methylene chloride	ND	H	0.010	1	09/28/2018 17:26
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	09/28/2018 17:26
Naphthalene	ND	H	0.0050	1	09/28/2018 17:26
n-Propyl benzene	ND	H	0.0050	1	09/28/2018 17:26
Styrene	ND	H	0.0050	1	09/28/2018 17:26
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	09/28/2018 17:26
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	09/28/2018 17:26
Tetrachloroethene	ND	H	0.0050	1	09/28/2018 17:26
Toluene	ND	H	0.0050	1	09/28/2018 17:26
1,2,3-Trichlorobenzene	ND	H	0.0050	1	09/28/2018 17:26
1,2,4-Trichlorobenzene	ND	H	0.0050	1	09/28/2018 17:26
1,1,1-Trichloroethane	ND	H	0.0050	1	09/28/2018 17:26
1,1,2-Trichloroethane	ND	H	0.0050	1	09/28/2018 17:26
Trichloroethene	ND	H	0.0050	1	09/28/2018 17:26
Trichlorofluoromethane	ND	H	0.0050	1	09/28/2018 17:26
1,2,3-Trichloropropane	ND	H	0.0050	1	09/28/2018 17:26
1,2,4-Trimethylbenzene	ND	H	0.0050	1	09/28/2018 17:26
1,3,5-Trimethylbenzene	ND	H	0.0050	1	09/28/2018 17:26
Vinyl Chloride	ND	H	0.0050	1	09/28/2018 17:26
m,p-Xylene	ND	H	0.0050	1	09/28/2018 17:26
o-Xylene	ND	H	0.0050	1	09/28/2018 17:26
Xylenes, Total	ND	H	0.0050	1	09/28/2018 17:26

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 0.75	**1808922-005C**	**Soil**	**08/17/2018 12:55**	**GC18 09281814.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	
Dibromofluoromethane	92	H	82-136	09/28/2018 17:26
Toluene-d8	123	H	92-139	09/28/2018 17:26
4-BFB	100	H	82-135	09/28/2018 17:26
Benzene-d6	93	H	55-122	09/28/2018 17:26
Ethylbenzene-d10	105	H	58-141	09/28/2018 17:26
1,2-DCB-d4	74	H	51-107	09/28/2018 17:26

Analyst(s): TK

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 5	**1808922-005D**	**Soil**	**08/17/2018 12:55**	**GC18 09281815.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
Acetone	ND	H	0.10	1	09/28/2018 18:07
tert-Amyl methyl ether (TAME)	ND	H	0.0050	1	09/28/2018 18:07
Benzene	ND	H	0.0050	1	09/28/2018 18:07
Bromobenzene	ND	H	0.0050	1	09/28/2018 18:07
Bromochloromethane	ND	H	0.0050	1	09/28/2018 18:07
Bromodichloromethane	ND	H	0.0050	1	09/28/2018 18:07
Bromoform	ND	H	0.0050	1	09/28/2018 18:07
Bromomethane	ND	H	0.0050	1	09/28/2018 18:07
2-Butanone (MEK)	ND	H	0.020	1	09/28/2018 18:07
t-Butyl alcohol (TBA)	ND	H	0.050	1	09/28/2018 18:07
n-Butyl benzene	ND	H	0.0050	1	09/28/2018 18:07
sec-Butyl benzene	ND	H	0.0050	1	09/28/2018 18:07
tert-Butyl benzene	ND	H	0.0050	1	09/28/2018 18:07
Carbon Disulfide	ND	H	0.0050	1	09/28/2018 18:07
Carbon Tetrachloride	ND	H	0.0050	1	09/28/2018 18:07
Chlorobenzene	ND	H	0.0050	1	09/28/2018 18:07
Chloroethane	ND	H	0.0050	1	09/28/2018 18:07
Chloroform	ND	H	0.0050	1	09/28/2018 18:07
Chloromethane	ND	H	0.0050	1	09/28/2018 18:07
2-Chlorotoluene	ND	H	0.0050	1	09/28/2018 18:07
4-Chlorotoluene	ND	H	0.0050	1	09/28/2018 18:07
Dibromochloromethane	ND	H	0.0050	1	09/28/2018 18:07
1,2-Dibromo-3-chloropropane	ND	H	0.0040	1	09/28/2018 18:07
1,2-Dibromoethane (EDB)	ND	H	0.0040	1	09/28/2018 18:07
Dibromomethane	ND	H	0.0050	1	09/28/2018 18:07
1,2-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 18:07
1,3-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 18:07
1,4-Dichlorobenzene	ND	H	0.0050	1	09/28/2018 18:07
Dichlorodifluoromethane	ND	H	0.0050	1	09/28/2018 18:07
1,1-Dichloroethane	ND	H	0.0050	1	09/28/2018 18:07
1,2-Dichloroethane (1,2-DCA)	ND	H	0.0040	1	09/28/2018 18:07
1,1-Dichloroethene	ND	H	0.0050	1	09/28/2018 18:07
cis-1,2-Dichloroethene	ND	H	0.0050	1	09/28/2018 18:07
trans-1,2-Dichloroethene	ND	H	0.0050	1	09/28/2018 18:07
1,2-Dichloropropane	ND	H	0.0050	1	09/28/2018 18:07
1,3-Dichloropropane	ND	H	0.0050	1	09/28/2018 18:07
2,2-Dichloropropane	ND	H	0.0050	1	09/28/2018 18:07

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 5	**1808922-005D**	**Soil**	**08/17/2018 12:55**	**GC18 09281815.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed
1,1-Dichloropropene	ND	H	0.0050	1	09/28/2018 18:07
cis-1,3-Dichloropropene	ND	H	0.0050	1	09/28/2018 18:07
trans-1,3-Dichloropropene	ND	H	0.0050	1	09/28/2018 18:07
Diisopropyl ether (DIPE)	ND	H	0.0050	1	09/28/2018 18:07
Ethylbenzene	ND	H	0.0050	1	09/28/2018 18:07
Ethyl tert-butyl ether (ETBE)	ND	H	0.0050	1	09/28/2018 18:07
Freon 113	ND	H	0.0050	1	09/28/2018 18:07
Hexachlorobutadiene	ND	H	0.0050	1	09/28/2018 18:07
Hexachloroethane	ND	H	0.0050	1	09/28/2018 18:07
2-Hexanone	ND	H	0.0050	1	09/28/2018 18:07
Isopropylbenzene	ND	H	0.0050	1	09/28/2018 18:07
4-Isopropyl toluene	ND	H	0.0050	1	09/28/2018 18:07
Methyl-t-butyl ether (MTBE)	ND	H	0.0050	1	09/28/2018 18:07
Methylene chloride	ND	H	0.010	1	09/28/2018 18:07
4-Methyl-2-pentanone (MIBK)	ND	H	0.0050	1	09/28/2018 18:07
Naphthalene	ND	H	0.0050	1	09/28/2018 18:07
n-Propyl benzene	ND	H	0.0050	1	09/28/2018 18:07
Styrene	ND	H	0.0050	1	09/28/2018 18:07
1,1,1,2-Tetrachloroethane	ND	H	0.0050	1	09/28/2018 18:07
1,1,2,2-Tetrachloroethane	ND	H	0.0050	1	09/28/2018 18:07
Tetrachloroethene	ND	H	0.0050	1	09/28/2018 18:07
Toluene	ND	H	0.0050	1	09/28/2018 18:07
1,2,3-Trichlorobenzene	ND	H	0.0050	1	09/28/2018 18:07
1,2,4-Trichlorobenzene	ND	H	0.0050	1	09/28/2018 18:07
1,1,1-Trichloroethane	ND	H	0.0050	1	09/28/2018 18:07
1,1,2-Trichloroethane	ND	H	0.0050	1	09/28/2018 18:07
Trichloroethene	ND	H	0.0050	1	09/28/2018 18:07
Trichlorofluoromethane	ND	H	0.0050	1	09/28/2018 18:07
1,2,3-Trichloropropane	ND	H	0.0050	1	09/28/2018 18:07
1,2,4-Trimethylbenzene	ND	H	0.0050	1	09/28/2018 18:07
1,3,5-Trimethylbenzene	ND	H	0.0050	1	09/28/2018 18:07
Vinyl Chloride	ND	H	0.0050	1	09/28/2018 18:07
m,p-Xylene	ND	H	0.0050	1	09/28/2018 18:07
o-Xylene	ND	H	0.0050	1	09/28/2018 18:07
Xylenes, Total	ND	H	0.0050	1	09/28/2018 18:07

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Analytical Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Received:	8/17/18 15:39	**Extraction Method:**	SW5030B
Date Prepared:	9/27/18	**Analytical Method:**	SW8260B
Project:	01217334.01; Balba	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
P6 5	**1808922-005D**	**Soil**	**08/17/2018 12:55**	**GC18 09281815.D**	**165630**

Analytes	Result	Qualifiers	RL	DF	Date Analyzed

Surrogates	REC (%)	Qualifiers	Limits	
Dibromofluoromethane	87	H	82-136	09/28/2018 18:07
Toluene-d8	127	H	92-139	09/28/2018 18:07
4-BFB	107	H	82-135	09/28/2018 18:07
Benzene-d6	97	H	55-122	09/28/2018 18:07
Ethylbenzene-d10	111	H	58-141	09/28/2018 18:07
1,2-DCB-d4	78	H	51-107	09/28/2018 18:07

Analyst(s): TK

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	10/1/18	**BatchID:**	165851
Date Analyzed:	10/1/18	**Extraction Method:**	SW3060A
Instrument:	IC2	**Analytical Method:**	SW7199
Matrix:	Soil	**Unit:**	mg/Kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165851

QC Summary Report for SW7199 (Hexavalent chromium)

Analyte	MB Result	MDL	RL			
Hexavalent chromium	ND	0.10	0.20	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Hexavalent chromium	22	20	20	109	101	70-130	7.41	10

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	9/26/18	**BatchID:**	165630
Date Analyzed:	9/27/18 - 9/30/18	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165630

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.10	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0050	-	-	-
Benzene	ND	0.0050	-	-	-
Bromobenzene	ND	0.0050	-	-	-
Bromochloromethane	ND	0.0050	-	-	-
Bromodichloromethane	ND	0.0050	-	-	-
Bromoform	ND	0.0050	-	-	-
Bromomethane	ND	0.0050	-	-	-
2-Butanone (MEK)	ND	0.020	-	-	-
t-Butyl alcohol (TBA)	ND	0.050	-	-	-
n-Butyl benzene	ND	0.0050	-	-	-
sec-Butyl benzene	ND	0.0050	-	-	-
tert-Butyl benzene	ND	0.0050	-	-	-
Carbon Disulfide	ND	0.0050	-	-	-
Carbon Tetrachloride	ND	0.0050	-	-	-
Chlorobenzene	ND	0.0050	-	-	-
Chloroethane	ND	0.0050	-	-	-
Chloroform	ND	0.0050	-	-	-
Chloromethane	ND	0.0050	-	-	-
2-Chlorotoluene	ND	0.0050	-	-	-
4-Chlorotoluene	ND	0.0050	-	-	-
Dibromochloromethane	ND	0.0050	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.0040	-	-	-
1,2-Dibromoethane (EDB)	ND	0.0040	-	-	-
Dibromomethane	ND	0.0050	-	-	-
1,2-Dichlorobenzene	ND	0.0050	-	-	-
1,3-Dichlorobenzene	ND	0.0050	-	-	-
1,4-Dichlorobenzene	ND	0.0050	-	-	-
Dichlorodifluoromethane	ND	0.0050	-	-	-
1,1-Dichloroethane	ND	0.0050	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.0040	-	-	-
1,1-Dichloroethene	ND	0.0050	-	-	-
cis-1,2-Dichloroethene	ND	0.0050	-	-	-
trans-1,2-Dichloroethene	ND	0.0050	-	-	-
1,2-Dichloropropane	ND	0.0050	-	-	-
1,3-Dichloropropane	ND	0.0050	-	-	-
2,2-Dichloropropane	ND	0.0050	-	-	-
1,1-Dichloropropene	ND	0.0050	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	9/26/18	**BatchID:**	165630
Date Analyzed:	9/27/18 - 9/30/18	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165630

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.0050	-	-	-
trans-1,3-Dichloropropene	ND	0.0050	-	-	-
Diisopropyl ether (DIPE)	ND	0.0050	-	-	-
Ethylbenzene	ND	0.0050	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0050	-	-	-
Freon 113	ND	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0050	-	-	-
Hexachloroethane	ND	0.0050	-	-	-
2-Hexanone	ND	0.0050	-	-	-
Isopropylbenzene	ND	0.0050	-	-	-
4-Isopropyl toluene	ND	0.0050	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0050	-	-	-
Methylene chloride	ND	0.010	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0050	-	-	-
Naphthalene	ND	0.0050	-	-	-
n-Propyl benzene	ND	0.0050	-	-	-
Styrene	ND	0.0050	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0050	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.0050	-	-	-
Tetrachloroethene	ND	0.0050	-	-	-
Toluene	ND	0.0050	-	-	-
1,2,3-Trichlorobenzene	ND	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.0050	-	-	-
1,1,1-Trichloroethane	ND	0.0050	-	-	-
1,1,2-Trichloroethane	ND	0.0050	-	-	-
Trichloroethene	ND	0.0050	-	-	-
Trichlorofluoromethane	ND	0.0050	-	-	-
1,2,3-Trichloropropane	ND	0.0050	-	-	-
1,2,4-Trimethylbenzene	ND	0.0050	-	-	-
1,3,5-Trimethylbenzene	ND	0.0050	-	-	-
Vinyl Chloride	ND	0.0050	-	-	-
m,p-Xylene	ND	0.0050	-	-	-
o-Xylene	ND	0.0050	-	-	-
Xylenes, Total	ND	0.0050	-	-	-

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	9/26/18	**BatchID:**	165630
Date Analyzed:	9/27/18 - 9/30/18	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165630

QC Summary Report for SW8260B

Analyte	MB Result	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery					
Dibromofluoromethane	0.12		0.12	94	87-127
Toluene-d8	0.16		0.12	130	93-141
4-BFB	0.014		0.012	113	84-137
Benzene-d6	0.095		0.10	95	67-131
Ethylbenzene-d10	0.11		0.10	110	78-153
1,2-DCB-d4	0.077		0.10	77	63-109

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	9/26/18	**BatchID:**	165630
Date Analyzed:	9/27/18 - 9/30/18	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165630

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	1.0	1.0	1	102	101	48-156	1.42	20
tert-Amyl methyl ether (TAME)	0.044	0.043	0.050	88	85	56-115	2.55	20
Benzene	0.049	0.049	0.050	98	98	63-131	0	20
Bromobenzene	0.056	0.055	0.050	111	110	66-127	0.913	20
Bromochloromethane	0.046	0.046	0.050	91	93	64-124	1.65	20
Bromodichloromethane	0.049	0.049	0.050	98	98	64-120	0	20
Bromoform	0.034	0.033	0.050	68	66	48-92	3.54	20
Bromomethane	0.041	0.036	0.050	82	72	25-163	13.0	20
2-Butanone (MEK)	0.19	0.19	0.20	95	96	51-133	1.20	20
t-Butyl alcohol (TBA)	0.17	0.17	0.20	84	83	52-129	0.652	20
n-Butyl benzene	0.082	0.083	0.050	165	167	83-200	1.04	20
sec-Butyl benzene	0.078	0.078	0.050	155	157	81-199	0.872	20
tert-Butyl benzene	0.070	0.071	0.050	140	141	79-178	1.10	20
Carbon Disulfide	0.040	0.042	0.050	81	83	64-136	2.92	20
Carbon Tetrachloride	0.050	0.051	0.050	101	101	66-140	0	20
Chlorobenzene	0.053	0.054	0.050	107	108	73-116	1.15	20
Chloroethane	0.033	0.028	0.050	65	56	35-147	14.8	20
Chloroform	0.045	0.046	0.050	90	92	65-130	2.26	20
Chloromethane	0.032	0.027	0.050	65	55	30-137	16.7	20
2-Chlorotoluene	0.066	0.066	0.050	132	133	75-152	0.625	20
4-Chlorotoluene	0.066	0.066	0.050	131	133	71-148	0.932	20
Dibromochloromethane	0.039	0.039	0.050	78	79	61-106	0.367	20
1,2-Dibromo-3-chloropropane	0.016	0.016	0.020	82	81	36-120	1.54	20
1,2-Dibromoethane (EDB)	0.043	0.043	0.050	87	87	67-118	0	20
Dibromomethane	0.044	0.046	0.050	89	91	61-116	2.48	20
1,2-Dichlorobenzene	0.048	0.048	0.050	96	96	59-106	0	20
1,3-Dichlorobenzene	0.060	0.060	0.050	119	119	75-129	0	20
1,4-Dichlorobenzene	0.055	0.055	0.050	111	111	66-127	0	20
Dichlorodifluoromethane	0.010	0.0093	0.050	20	19	13-74	9.72	20
1,1-Dichloroethane	0.046	0.047	0.050	92	94	65-134	2.94	20
1,2-Dichloroethane (1,2-DCA)	0.040	0.040	0.050	80	81	57-131	0.735	20
1,1-Dichloroethene	0.041	0.043	0.050	82	85	62-127	3.70	20
cis-1,2-Dichloroethene	0.046	0.047	0.050	91	95	66-130	3.84	20
trans-1,2-Dichloroethene	0.044	0.045	0.050	88	89	60-131	1.78	20
1,2-Dichloropropane	0.049	0.049	0.050	99	98	63-127	0.510	20
1,3-Dichloropropane	0.049	0.049	0.050	98	97	68-124	0.161	20
2,2-Dichloropropane	0.050	0.050	0.050	100	100	63-150	0	20
1,1-Dichloropropene	0.051	0.051	0.050	102	101	67-134	0.327	20

(Cont.)

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	9/26/18	**BatchID:**	165630
Date Analyzed:	9/27/18 - 9/30/18	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165630

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.051	0.052	0.050	103	104	65-138	1.20	20
trans-1,3-Dichloropropene	0.052	0.051	0.050	104	102	66-124	2.60	20
Diisopropyl ether (DIPE)	0.049	0.047	0.050	97	95	58-129	2.69	20
Ethylbenzene	0.058	0.057	0.050	116	115	73-145	0.834	20
Ethyl tert-butyl ether (ETBE)	0.047	0.046	0.050	95	92	62-125	2.39	20
Freon 113	0.036	0.037	0.050	72	73	55-116	1.76	20
Hexachlorobutadiene	0.062	0.065	0.050	124	129	75-178	4.58	20
Hexachloroethane	0.057	0.058	0.050	114	116	75-152	2.05	20
2-Hexanone	0.038	0.036	0.050	76	72	41-113	5.37	20
Isopropylbenzene	0.083	0.083	0.050	166	166	67-172	0	20
4-Isopropyl toluene	0.077	0.077	0.050	155	154	88-171	0.172	20
Methyl-t-butyl ether (MTBE)	0.044	0.043	0.050	88	86	58-122	2.39	20
Methylene chloride	0.044	0.046	0.050	89	91	57-140	2.91	20
4-Methyl-2-pentanone (MIBK)	0.036	0.035	0.050	73	71	42-117	3.42	20
Naphthalene	0.026	0.026	0.050	53	51	29-65	3.40	20
n-Propyl benzene	0.074	0.074	0.050	147	148	85-174	0.727	20
Styrene	0.051	0.050	0.050	103	99	63-126	3.31	20
1,1,1,2-Tetrachloroethane	0.046	0.046	0.050	91	92	68-131	0.967	20
1,1,2,2-Tetrachloroethane	0.047	0.047	0.050	94	93	45-121	0.336	20
Tetrachloroethene	0.050	0.050	0.050	100	101	65-150	0.437	20
Toluene	0.052	0.052	0.050	104	104	72-135	0	20
1,2,3-Trichlorobenzene	0.028	0.028	0.050	57	57	35-80	0	20
1,2,4-Trichlorobenzene	0.040	0.039	0.050	79	79	45-103	0	20
1,1,1-Trichloroethane	0.046	0.047	0.050	92	94	67-137	1.87	20
1,1,2-Trichloroethane	0.046	0.046	0.050	92	93	67-117	0.238	20
Trichloroethene	0.046	0.047	0.050	93	93	62-135	0	20
Trichlorofluoromethane	0.027	0.027	0.050	53, F2	55, F2	56-124	3.19	20
1,2,3-Trichloropropane	0.052	0.051	0.050	104	102	58-133	1.72	20
1,2,4-Trimethylbenzene	0.065	0.064	0.050	130	129	78-161	0.958	20
1,3,5-Trimethylbenzene	0.075	0.074	0.050	150	148	85-170	0.848	20
Vinyl Chloride	0.031	0.026	0.050	62	52	32-142	15.9	20
m,p-Xylene	0.12	0.12	0.10	118	116	70-138	1.67	20
o-Xylene	0.055	0.053	0.050	110	107	69-135	2.63	20
Xylenes, Total	0.17	0.17	0.15	115	113	70-137	1.97	20

(Cont.)

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Quality Control Report

Client:	SCS Engineers	**WorkOrder:**	1808922
Date Prepared:	9/26/18	**BatchID:**	165630
Date Analyzed:	9/27/18 - 9/30/18	**Extraction Method:**	SW5030B
Instrument:	GC18	**Analytical Method:**	SW8260B
Matrix:	Soil	**Unit:**	mg/kg
Project:	01217334.01; Balba	**Sample ID:**	MB/LCS/LCSD-165630

QC Summary Report for SW8260B

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.13	0.13	0.12	100	103	87-127	2.69	20
Toluene-d8	0.16	0.16	0.12	128	126	93-141	1.38	20
4-BFB	0.016	0.017	0.012	131	132	84-137	0.695	20
Benzene-d6	0.10	0.10	0.10	103	104	67-131	0.393	20
Ethylbenzene-d10	0.11	0.11	0.10	112	112	78-153	0	20
1,2-DCB-d4	0.094	0.095	0.10	94	95	63-109	1.79	20

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Pittsburg, CA 94565-1701
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CHAIN-OF-CUSTODY RECORD

WorkOrder: 1808922 A **ClientCode: SCSD**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☐ Detection Summary ☐ Dry-Weight

Report to:
Jim Ritchie
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
(925) 426-0080 FAX: (925) 426-0707

Email: jritchie@scsengineers.com; mgrisham@sc
cc/3rd Party:
PO:
Project: 01217334.01; Balba

Bill to:
Accounts Payable
SCS Engineers
7041 Koll Center Parkway, Suite 135
Pleasanton, CA 94566
MGrisham@SCSEngineers.com

Requested TAT: 5 days;

Date Received: 08/17/2018
Date Logged: 08/21/2018
Date Add-On: 09/26/2018

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
					Requested Tests (See legend below)											
1808922-003	P3 0.75	Soil	8/17/2018 11:18	☐	B											
1808922-003	P3 2.5	Soil	8/17/2018 11:18	☐	C											
1808922-005	P5 9.5	Soil	8/17/2018 12:22	☐	B	B										
1808922-005	P6 0.75	Soil	8/17/2018 12:55	☐	C	C										
1808922-005	P6 5	Soil	8/17/2018 12:55	☐	D	D										

Test Legend:

1	7199_TTLC_LL_S [J]	2	8260B_S	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Maria Venegas

Add-On Prepared By: Maria Venegas

Comments: Samples of HOLD 8/21/18 STAT. Lots of samples still on HOLD not login and un-labeled. See Maria with details. Discrete analysis added 9/26/18.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: SCS ENGINEERS
Client Contact: Jim Ritchie
Contact's Email jritchie@scsengineers.com; mgrisham@scseng.com

Project: 01217334.01; Balba
Comments: Samples of HOLD 8/21/18 STAT. Lots of samples still on HOLD not login and un-labeled. See Maria with details. Discrete analysis added 9/26/18

Work Order: 1808922
QC Level: LEVEL 2
Date Logged: 8/21/2018
Date Add-On: 9/26/2018

Lab ID	Client ID	Matrix	Test Name	Containers /Composites	Bottle & Preservative	Collection Date & Time	TAT	Sediment Content	Hold	SubOut
1808922-003B	P3 0.75	Soil	SW7199 (Hexavalent chromium, Low-Level)	1	Acetate Liner	8/17/2018 11:18	5 days		☐	
1808922-003C	P3 2.5	Soil	SW7199 (Hexavalent chromium, Low-Level)	1	Acetate Liner	8/17/2018 11:18	5 days		☐	
1808922-005B	P5 9.5	Soil	SW8260B (VOCs)	1	Acetate Liner	8/17/2018 12:22	5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)				5 days		☐	
1808922-005C	P6 0.75	Soil	SW8260B (VOCs)	1	Acetate Liner	8/17/2018 12:55	5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)				5 days		☐	
1808922-005D	P6 5	Soil	SW8260B (VOCs)	1	Acetate Liner	8/17/2018 12:55	5 days		☐	
			SW7199 (Hexavalent chromium, Low-Level)				5 days		☐	

NOTES: - STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

General COC

MAI Work Order # 1808922

McCAMPBELL ANALYTICAL, INC.

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CHAIN OF CUSTODY RECORD

Turn Around Time: 1 Day Rush | 2 Day Rush | 3 Day Rush | STD X | Quote #
J-Flag / MDL | ESL X | Cleanup Approved | Bottle Order #
Delivery Format: PDF | GeoTracker EDF | EDD | Write On (DW) | EQuIS

Report To: Jim Ritchie Bill To:
Company: SCS ENGINEERS
Email: jritchie@scsengineers.com
Alt Email: Tele: 650 995-3312
Project Name: Balboa Reserve Project #:
Project Location: South San Francisco PO # 01217344.01
Sampler Signature:

Analysis Requested

SAMPLE ID Location / Field Point	Sampling Date	Sampling Time	#Containers	Matrix	Preservative	~~TPH(g) & TPH as Gas (8021/ 8015)~~ ~~MTBE~~	TPH as Diesel (8015) + Motor Oil Without Silica Gel	TPH as Diesel (8015) + Motor Oil With Silica Gel	Total Oil & Grease (1664 / 9071) Without Silica Gel	Total Petroleum Hydrocarbons - Oil & Grease (1664 / 9071) With Silica Gel	Total Petroleum Hydrocarbons (418.1) With Silica Gel	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ; Aroclors only	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.8 / 6020)[A]	~~Metals (200.8 / 6020)~~ 218.6 9/24/18	Baylands Requirements VOC 9/24/18	Lab to filter sample for dissolved metals analysis	Hexavalent Chromium	Soluble Lead	Cyanide	
P1 (0.75, 2.5, 5, 7, 9.5)	8/17	1040	5	S		X		X				X	X	X	X		X				X	X	X	
P2 (0.75, 2.5, 5, 7, 9.5)	8/17	1011	5	S		X		X				X	X	X	X		X				X	X	X	
P3 (0.75, 2.5, 5, 7, 9.5)	8/17	1118	5	S		X		X				X	X	X	X		X	X		/	X	X	X	
P4 (0.75 2.5, 5, 7, 9.5)	8/17	1148	5	S		X		X				X	X	X	X		X				X	X	X	
P5 (0.75 2.5, 5, 7, 9.5)	8/17	1227	5	S		X		X				X	X	X	X		X	X	X		X	X	X	
P6 (0.75 2.5, 5, 7, 9.5)	8/17	1255	5	S		X		X				X	X	X	X		X	X	X		X	X	X	

MAI clients MUST disclose any dangerous chemicals known to be present in their submitted samples in concentrations that may cause immediate harm or serious future health endangerment as a result of brief, gloved, open air, sample handling by MAI staff. Non-disclosure incurs an immediate $250 surcharge and the client is subject to full legal liability for harm suffered. Thank you for your understanding and for allowing us to work safely.

* If metals are requested for water samples and the water type (Matrix) is not specified on the chain of custody, MAI will default to metals by E200.8.

Please provide an adequate volume of sample. If the volume is not sufficient for a MS/MSD a LCS/LCSD will be prepared in its place and noted in the report.

Relinquished By / Company Name	Date	Time	Received By / Company Name	Date	Time
Natasha Macanhan / SCS	8/17	1539		8/17/18	1539

Comments / Instructions

Put On Hold

Remove from hold and analyze as listed below. 8/21/18

Matrix Code: DW=Drinking Water, GW=Ground Water, WW=Waste Water, SW=Seawater, S=Soil, SL=Sludge, A=Air, WP=Wipe, O=Other
Preservative Code: 1=4°C 2=HCl 3=H_2SO_4 4=HNO_3 5=NaOH 6=ZnOAc/NaOH 7=None

Temp 3.7 °C Initials

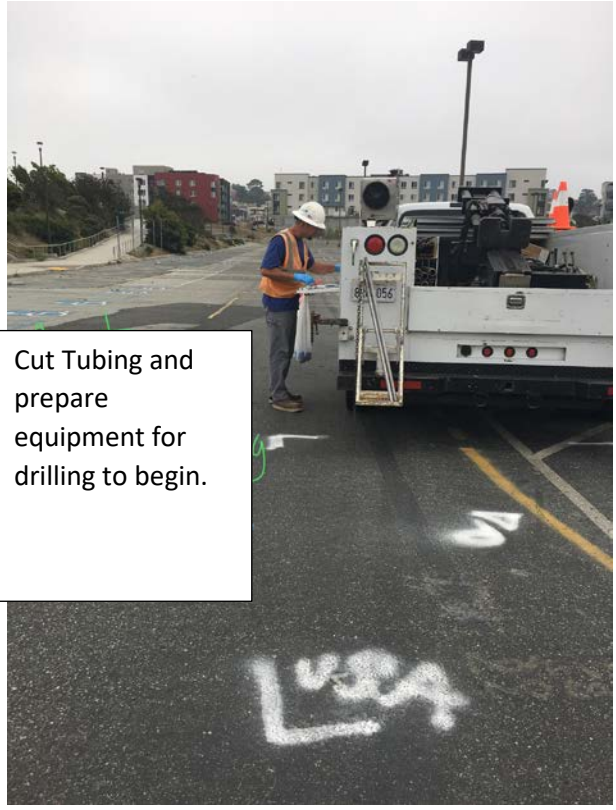
Please composite: 1) P1 0.75 and 2.5, 2) P2 0.75 and 2.5, 3) P3 0.75 and 2.5, P4 0.75 and 2.5, and 5) P5 ~~0.75 and 5.5~~ 9.5, P6 ~~2.5 and 9.5~~ 0.7 + 5 per J.R.
Total of five composited samples.
Run for TPHg, d, mo (silica gel prep), VOCs including BTEX, Organochorine Pesticides, PCBs, SVOCs, CAM 17 Metals and cyanide, solutble lead, and hexavalent chromium.

Page ___ of ___

APPENDIX D

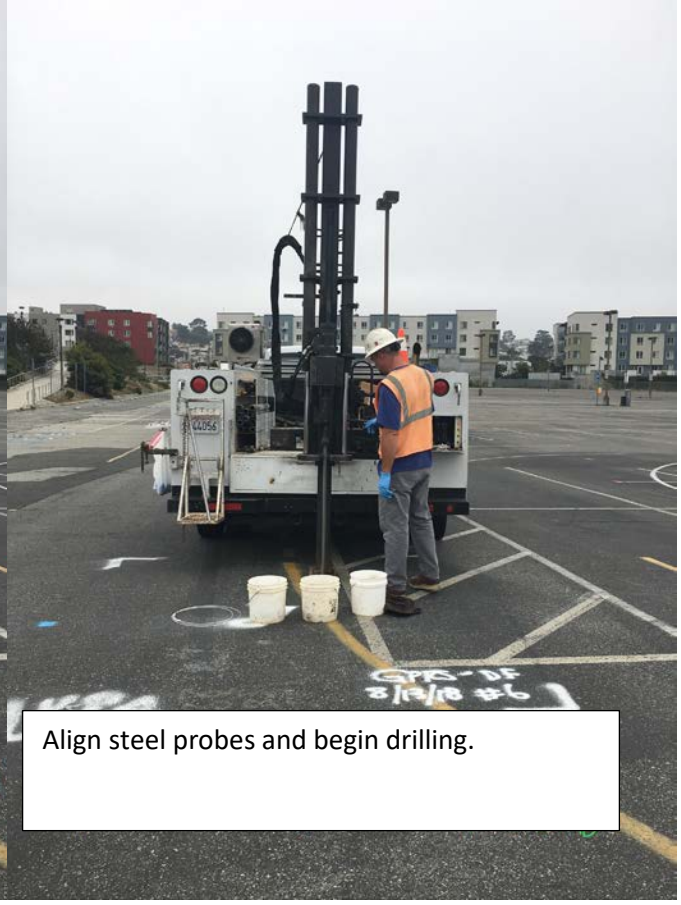
PHOTOGRAPHS

Show up to Location marked.



Cut Tubing and prepare equipment for drilling to begin.

Put buckets/tube in place and get direct push drill rig and pieces prepared.

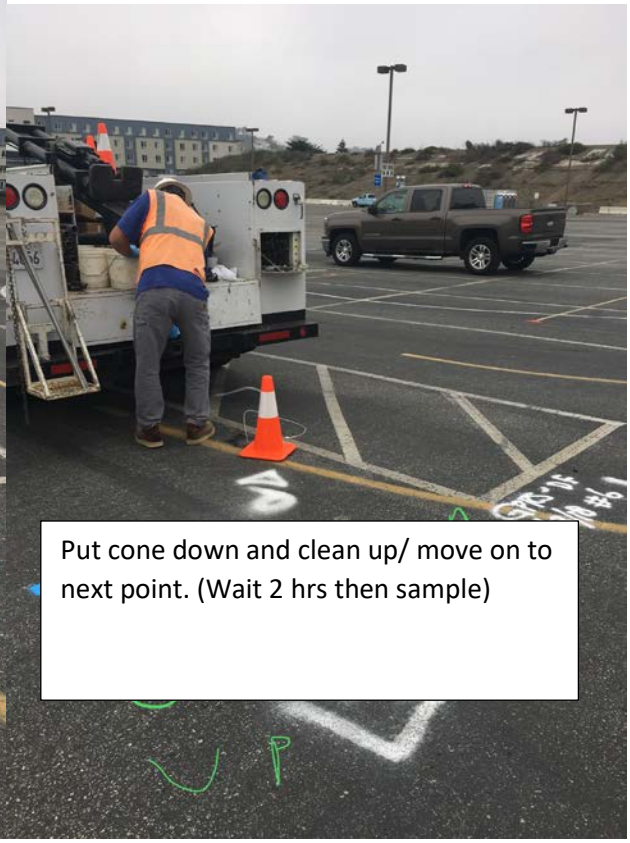


Align steel probes and begin drilling.

Detach and insert new drive points and steel probe and repeat process.

Sweep up area around sample location.

Pull the probe out and place the Nylaflow tubing prepared through the top of the geo rod. Remove rod and place hydrated bentonite seal around tubing (using the mix in the 3 buckets).



Put cone down and clean up/ move on to next point. (Wait 2 hrs then sample)