

## Appendix G-2

### Phase II ESA



April 26, 2013

Mr. Steve Bull  
**KB Home**  
5000 Executive Parkway, Suite 125  
San Ramon, California 94583

Dear Mr. Bull,

We are pleased to submit our Draft Additional Phase II Environmental Sampling Report for the Eastern portion of Communication Hill in San Jose. We look forward to your review and comment. Should you have any questions, please call me at (925)786-2667 or I can be contacted at [tom@mccloskeyconsultants.com](mailto:tom@mccloskeyconsultants.com).

Sincerely,

Thomas F. McCloskey, P.G., C.E.G., C.HG.  
President and Principal Geologist

Copies: Addressee (e-copy)  
Mr. Robert J. Bettencourt (hard copy)

# DRAFT Additional Phase II Environmental Sampling Report

Communication Hill East, San Jose California

Prepared for:

KB Home  
Pleasanton, California

April 26, 2013

Prepared by:  
McCloskey Consultants, Inc.



**DRAFT**

**ADDITIONAL PHASE II ENVIRONMENTAL  
SAMPLING REPORT**

**Communication Hill East  
San Jose, California**

**April 26, 2013**

**Prepared for:**

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**Prepared by:**

**McCloskey Consultants, Inc.**

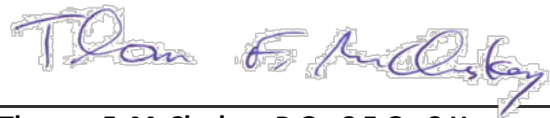
**420 Sycamore Valley Road West**

**Danville, CA 94526**



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**Christopher M. Vertin  
Senior Staff Engineer**



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**Thomas F. McCloskey, P.G., C.E.G., C.Hg.  
Principal Geologist**

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## **1.0 INTRODUCTION**

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### **1.1 Statement of Purpose**

McCloskey Consultants, Inc. (MCI) was retained by KB Home to perform additional Phase II environmental sampling services on the eastern side of Communication Hill in San Jose, California (Site). The Site location and vicinity map is included as Figure 1. The objective of the additional sampling was to evaluate the reclamation fill soils and mixed stockpiled soils at the Site for the presence of possible contamination related to previous uses as well as naturally-occurring compounds that could represent a concern for the planned future uses of the property. KB Home is planning residential development for portions of the Site, commercial redevelopment is planned for other areas, and a new elementary school is also planned at the Site. Extensive previous sampling was performed on this Site (SES, 2009), and the results of that work are summarized in Section 1.3.

### **1.2 Site Description and Background**

The Site area consists of two parcels totaling approximately 312 acres of land located approximately 4 miles south of downtown San Jose. Most, but not all, of this area is planned to be used for new residential development. A 55-acre area near the southeast corner is currently planned to be later developed for industrial uses. The Site is located on the northeast portion of an elongated bedrock ridge that rises out of the southern portion of the Santa Clara Valley to a maximum elevation of about 425 feet above mean sea level. The northeastern boundary of the Site is marked by a rail line, the southwestern boundary is marked by the Tuscan Hills residential development, and the southern boundary is marked by Hillsdale Avenue (Figure 2).

The Site is currently owned by MTA Properties, and the 55-acre portion in the southeastern corner of the Site is currently leased to a materials recycling company. Most of the land was previously leased to Raisch Products Company (Raisch) before the company recently went bankrupt. Rock quarrying operations were performed historically (since 1973) by Raisch over a large portion of the southern area of the Site which has altered and lowered the natural topography. Quarry reclamation was on-going starting in 1992-93 and continued to late 2009.

A relatively small underground cinnabar mine, known best as the Hillsdale Mine, remains on a portion of the Site. The cinnabar (mercury sulfide) is the result of hydrothermal alteration of the serpentinite bedrock present at the Site. The Hillsdale mine was operational starting as early as the 1850's supplying the gold fields with mercury during the California gold rush. Sporadic small-scale cinnabar mining, or just mine evaluations, appear to have continued into the 1940's. The ore vein, waste rock, and ore crushing and heating areas were evaluated during previous studies for their potential to impact the planned redevelopment. The cinnabar

appears to be associated with white, silica-carbonate bedrock that occurs in the mine area as a narrow, discontinuous lens that is dipping steeply west. Similar lenses are present northwest of this lens but were apparently not mined suggesting they lack concentrated cinnabar.

Serpentinite and serpentinized basaltic bedrock is present over large areas of the Site. This type of rock contains naturally-occurring asbestos (NOA). Asbestos fibers are believed to be a health hazard when inhaled or ingested in large amounts typically in an occupational setting, and the safe level of exposure to small amounts has not been established by medical researchers and toxicologists. The control of the release of NOA fibers during grading operations is required by local agencies along with long-term dust control measures such as capping of exposed NOA bedrock. In addition, CalOSHA treats NOA similar to building materials in regards to worker exposure prevention and training requirements. Geologic mapping performed by the project geotechnical engineer has identified where the serpentinite is present (Cornerstone, 2009).

Quarry reclamation activities starting in the early 1990's apparently included capping of exposed bedrock with 1-2 feet of imported fill soils. These soils were obtained by allowing import of soils from local construction projects that had excess soils. The condition of these soils with respect to natural and man-made contaminants was incomplete, and this issue was addressed during the current investigation.

Raisch's final operations at the Site involved only a concrete and asphalt recycling operation. The asphalt has been removed from the Site, but several stockpiles of mixed recycled concrete and imported soil. Additional recent stockpiles in the leased 55-acre portion of the Site also remain on Site. This material appears to be composed only of recycled concrete.

### **1.3 Previous Site Investigations**

An investigation was conducted by Strategic Engineering & Science (SES, 2009) to evaluate the rock, soil, sediment and water at the Site for a number of potential environmental contaminants of concern. The contaminants identified during the investigation at the Site include the following:

- Mercury in bedrock at the mine area and areas northwest of the mine;
- Mercury and nickel in a former ore processing area,
- Petroleum hydrocarbons in fill soils in the northeastern area of the Site,
- Spring water with potentially elevated concentrations of arsenic, nickel, and thallium,
- Methyl mercury in the quarry pond water; and,
- Widespread naturally-occurring asbestos at the Site.



### **1.3.1 Mercury in Bedrock**

The silica-carbonate rock that hosts the cinnabar ore vein outcrops at the surface near the former mine workings and other areas of the Site, and an additional 24 bedrock samples were collected in 2009 to confirm and to supplement the nine earlier samples collected (Terratech, 1991). The testing results show that mercury concentrations exceed the California Human Health Screening Levels (CHHSLs) (Cal/EPA, 2005) for residential use of 18 milligrams per kilogram (mg/kg) at only three locations, and none of the locations exceed the CHHSL for commercial and industrial uses. The hazardous waste threshold of 20 mg/kg was exceeded at two locations in the mine area, and at one location in the extreme northwest corner of the Site. The mercury testing results from the naturally-occurring outcrops were analyzed to obtain the 95% Upper Confidence Limit (UCL) of the data set. The calculation performed is included in Appendix C. The results show that the 95% UCL is 8.2 mg/kg which is well below the residential CHHSL and the hazardous waste concentration. Regulatory agencies generally do not require mitigation if the 95% UCL of the analyte does not exceed regulatory threshold concentrations.

### **1.3.2 Former Ore Processing Area**

A mine map from 1943 showed an ore crusher and furnace located near the former main mine portal, and the slab of this structure is also visible in historic aerial photographs. The ore processing can result in spillage and accumulation of mercury and other metals. A number of borings were completed in the area after elevated mercury and nickel concentrations were identified in initial soil sampling of the area. The detected mercury concentrations exceeded the CHHSLs for residential uses, but not commercial/industrial standards. The nickel concentrations were elevated but did not exceed either standard for direct exposure. Solubility testing showed that nickel from one sample exceeded the hazardous waste concentrations.

Heating of cinnabar to release mercury produces a waste rock called “calcines” that is pink to gray in color and can retain elevated mercury concentrations. Nine exploratory borings were completed and 16 soil samples were collected for mercury analysis of suspect material. Mercury concentrations were detected in the samples collected, but all concentrations were well below the regulatory thresholds and are generally consistent with the typical naturally-occurring background concentrations (Scott, 1991).

### **1.3.3 Petroleum Hydrocarbons in Fill**

The previous Phase I Environmental Site Assessment (SES, 2007) identified former Raisch operations in the area on the eastern side of the Site adjacent to the railroad tracks. Sampling was performed in this area for the presence of residual contamination. In the boreholes were identified thin lenses (6 and 12 inches) of black, petroleum hydrocarbon material 3 to 6 feet

below the surface in two areas. Additional step-out borings were completed to estimate the lateral extent of these lenses. Comprehensive laboratory testing of this material identified only motor oil contamination. The concentrations exceeded the San Francisco Regional Water Quality Control Board (SFRWQCB) thresholds for gross contamination (possible odors) for soils less than 3 meters deep, but not the updated direct exposure for construction workers (SFRWQCB, 2013).

#### **1.3.4 Spring Water Sampling**

Two springs and the quarry pond at the Site were sampled six continuous quarters during the 2009 investigation. One of the springs emanates from the former main haul line portal for the mine, and the other spring is in an area north of the mine and it drains to the quarry pond. Water from inside the mine was also sampled. The sampling results were compared to the very restrictive RWQCB Environmental Screening Levels (ESLs) for surface water screening levels for estuary habitats because this water may be captured by subdrains installed for the future development and eventually be discharged to Coyote Creek and the San Francisco Bay. The only constituents identified at potentially elevated concentrations in the samples collected were arsenic, thallium, and nickel. These metals were most likely naturally occurring and related to the hydrothermally altered and/or ultramafic rocks at the Site.

#### **1.3.5 Quarry Pond Sampling**

Water samples collected from the quarry pond identified methyl mercury concentrations that exceed the SFRWQCB ESLs for surface water screening levels for estuary habitats. Methyl mercury is soluble and is produced in water by sulfate reducing bacteria under low-oxygen conditions when elemental mercury is present in sufficient concentrations. The quarry pond is therefore capable of generating methyl mercury which likely occurs at depth in the pond during the summer months when algae depletes the pond water of oxygen allowing anaerobic conditions to develop resulting in the production of methyl mercury.

#### **1.3.6 Naturally-Occurring Asbestos**

Serpentine bedrock containing chrysotile asbestos (NOA) is present over large areas of the Site, as shown on the geologic map produced for the geotechnical investigation (Cornerstone, 2009). Five samples were collected from locations distributed throughout the Site and analyzed for NOA. The samples were analyzed by plane light microscopy (PLM) and CARB 435 400 Point Count methods. NOA (as chrysotile) was detected in all five of the bedrock samples analyzed by PLM. Due to the high percentage of fibers in four of the bedrock samples, accurate point counting could not be performed, and therefore an estimate of 20-30 percent NOA, as chrysotile, was reported for the four samples. The concentrations in all of these samples

exceed the Bay Area Air Quality Management District (BAAQMD) limit of 0.25% (State of California ATCM, 2002).

Three additional soil samples were collected from different depths to determine the NOA concentrations at depth in fill and deep colluvium in the northern end of the Site west of the existing Quarry Pond. The samples were analyzed by transmitting electron microscopy (TEM) methods because this test is able to resolve the smaller asbestos fibers that are in soils. Laboratory analyses of deeper, buried colluvium soils in this area detected NOA concentrations of only 0.002 and 0.003 percent. These concentrations are less than the BAAQMD criteria of 0.25% and also the DTSC Schools Division criteria of 0.01%. These soils are therefore suitable for capping of NOA in the bedrock at the Site for any of the planned redevelopment areas. These soils are largely covered by fill soils that contained higher concentrations of NOA which would have to be removed if the deeper soils are to be reused for cover material.

#### **1.4 Current Scope of Work**

The scope of work for the current environmental site sampling included the following tasks:

- Completion of 20 pothole excavations, and collection of soil samples from the capping soils at each location for laboratory analysis;
- Review of current activities in the southeast, 55-acre portion of the Site;
- Additional sampling in the area of the former ore crusher;
- Collection and analysis of soil samples from the six stockpiles located in the lower Site area; and,
- Data analysis and report preparation.

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## **2.0 SAMPLING AND RESULTS**

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### **2.1 Quarry Reclamation Fill Soil Sampling**

#### **2.1.1 Sample Collection and Analyses**

During the reclamation of the former Azevedo Quarry, Raisch Products Company placed generally 2 to 3 feet of imported soil to cap over exposed bedrock prior to hydroseeding. No documentation of the sources of the import soil was available and no testing for the presence of contamination appears to have been performed. Based on the Reclamation Report (H.T. Harvey and Associates, May 14, 2008), it was also stated that the reclamation was to be accomplished by spreading serpentine-based topsoil over the quarried areas and subsequent seeding with "locally favorable" native grasses and forbs. The use of the serpentine-based

topsoil in the reclamation process increases the likelihood of NOA-containing soils of being used to cap the bedrock.

To evaluate the soils for the presence of man-made compounds and for NOA, a small track excavator was used to excavate 20 potholes over approximately 130 acres of the planned development. Potholing and sample collection activities were conducted as described in the general field procedures summarized in Appendix A. The sampling locations are shown on Figure 2. With exception of pothole TP-25, which appeared to only be in native soils and bedrock, at least one sample was collected from each of the 20 locations and analyzed for CAM 17 metals (EPA Test Methods 6010/7471), organochlorine pesticides (OCPs) (EPA Test Method 8081) which are persistent compounds that can remain at elevated concentrations for many years. Discolored soil or suspect materials was observed at depth in only one pothole location (TP-10). The soil sample (TP-10 at 11-11½ below ground surface) was also analyzed for semi-volatile organic compounds (EPA Test Method 8270 SIM), and gasoline, diesel and motor oil range total petroleum hydrocarbons (EPA Test Methods 8260 and 8015B with a silica gel clean-up). Fifteen of the samples were analyzed for NOA by plane light microscopy (PLM), CARB 435 1000-Point Count. Samples were not collected for the NOA analysis when serpentine was observed mixed in the fill soils. The sample collected from pothole location TP-19 in the area of the proposed new school was analyzed for NOA by Transmitting electron microscope (TEM) (NOA EPA/CARB Quantitative).

### **2.1.2 Analytical Results**

The laboratory results of the pesticides analysis are summarized in Table 1, metals analyses are summarized in Table 2, petroleum hydrocarbon and semi-volatile compounds analyses are summarized in Table 3, and results of the PLM and TEM analyses are summarized in Table 4. Only those chemicals that exceeded detection limits in at least one sample are included in the summary tables with exception of all the metals included in Table 2. The complete laboratory results are included as Appendix B.

The organochlorine pesticide results show that some of the samples had detectible concentrations of 4,4'-DDD, 4,4'-DDE, and 4,4'-DDT that range from 0.0023 milligrams per kilogram (mg/Kg) up to 0.200 mg/Kg. These concentrations are well below their respective single compound California Human Health Screening Levels (CHHSL) (Cal/EPA, 2005) for residential uses. Alpha chlordane, technical chlordane, and gamma chlordane were also detected in a few of the samples collected but at concentrations well below their respective single compound CHHSL screening levels.

Eleven metals (antimony, arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, vanadium and zinc) had detectable concentrations from the samples collected from the potholed locations. Except for arsenic and one lead concentration, the metals concentrations were below the CHHSL and TTLC for hazardous waste classification in all soil samples analyzed. Concentrations of arsenic were detected exceeding laboratory detection limits in just two of the soil samples. Arsenic concentrations of 2.2 mg/Kg were detected in both samples. The reported arsenic concentrations exceed the CHHSL for residential land use of 0.07 mg/Kg; however, naturally-occurring arsenic concentrations in this geographic area commonly exceed CHHSLs. Because of this, the recommended acceptable risk management guideline concentration for arsenic in the San Francisco Bay Region (Duverge', 2011) is 12 mg/Kg. None of the arsenic concentrations exceed 12 mg/Kg.

Lead concentrations were detected in every sample collected from the potholes and ranged from 4.5 mg/Kg to 43 mg/Kg with one concentration detected at 80 mg/kg. The lead concentration of 80 mg/Kg matches the CHHSL of 80 mg/Kg. The other lead concentrations generally appear consistent with naturally-occurring concentrations in California.

Slightly elevated concentrations of chromium and nickel are likely associated with the serpentinite rock and regardless the concentrations detected are all less than their respective residential CHHSLs. The other metals concentrations are generally consistent with naturally-occurring concentrations in soils in this area (Scott, 1991).

Low concentrations of TPH as diesel (TPHd) was detected in the soil sample collected from pothole TP-10 (2.0 mg/Kg) at 11 to 11½ feet bsg. Gasoline range petroleum hydrocarbons were not detected exceeding the laboratory reporting limit in any of the samples. Anthracene, 1-methylnaphthalene, 2-methylnaphthalene and phenanthrene were also detected in the TP-10 sample exceeding the laboratory reporting limits. The results were compared to the San Francisco Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for shallow soil for the protection of groundwater, gross contamination ceiling value (odors), and direct exposure for residential land uses. None of the concentrations detected in the soil samples exceeded any of their respective ESLs.

Chrysotile fibers were detected exceeding the 0.10% detection limit in five of the 15 cap samples analyzed by the PLM (CARB 435 1,000 Point Count) method. Three of the concentrations detected exceed the Bay Area Air Quality Management District (BAAQMD) limit of 0.25% (State of California, 2002) and therefore a Dust Mitigation Plan is required to be submitted and approved by the BAAQMD. The plan must describe dust control measures during grading as well as long term dust control measures.

NOA (as chrysotile) was detected by the TEM method in the soil sample from pothole TP-19 at 0.30 percent. This location corresponds to the future school area. The sample exceeded the Department of Toxic Substance Control (DTSC) Schools Program screening level of 0.01 percent NOA in over 25% of the samples, which triggers additional mitigation measure if the school will utilize State funds for construction or future funding needs.

## **2.2 Stockpiled Material in the Lower Quarry Area Sampling**

### **2.2.1 Sample Collection and Analyses**

Six stockpiles are located in the lower quarry area and are composed of mixed aggregate and soils. We understand that this material would potentially be reused at the Site. To evaluate the stockpiles for contamination, we collected composite samples from each stockpile for lab analyses. The number of composite samples collected was based on the approximate size of the stockpile. We collected four, 4-point composites from the largest four stockpiles, and two 4-point composites from a smaller stockpile, and one 4-point composite from smallest stockpile to the northeast. The sampling locations are shown on Figures 3 and 4. The stockpile samples were analyzed for CAM 17 metals (EPA Test Methods 6010/7471), OCPs (EPA Test Method 8081), semi-volatile organic compounds (EPA Test Method 8270 SIM), and NOA by plane light microscopy (PLM), CARB 435 1000-Point Count.

Stockpile sample collection activities were conducted as described in the general field procedures summarized in Appendix A.

### **2.2.2 Analytical Results**

The laboratory results of the pesticides analyses are summarized in Table 5, metals analyses are summarized in Table 6, petroleum hydrocarbon and semi-volatile compounds analyses are summarized in Table 3, and results of the PLM analyses are summarized in Table 7. Only those chemicals that exceeded detection limits in at least one sample are included in the summary tables. The complete laboratory results are included as Appendix B.

The organochlorine pesticide results show that all of the composite samples had detectible concentrations of 4,4'-DDD, 4,4'-DDE, and/or 4,4'-DDT that range from 0.0039 milligrams per kilogram (mg/Kg) up to 0.190 mg/Kg. These concentrations are well below their respective single compound California Human Health Screening Levels (CHHSL) (Cal/EPA, 2005) for residential uses. Alpha chlordane, technical chlordane, and gamma chlordane were also detected in two of the samples collected and concentrations were also well below their respective single compound CHHSL screening levels. Because chlordane was detected exceeding  $\frac{1}{4}$  of the single compound CHHSL in composite sample SP-4-2, the discrete samples

from composite SP-4-2 were each analyzed to evaluate the chlordane concentration in each sample. None of the concentrations detected in the discrete samples exceeded their respective residential CHHSLs. Dieldrin was detected in one of the composite samples at 0.0037 mg/Kg. This concentration is below the single compound CHHSL of 0.035 mg/kg for residential uses.

Ten metals (arsenic, barium, chromium, cobalt, copper, lead, mercury, nickel, vanadium and zinc) had detectable concentrations from the composited samples collected from the stockpiles. Except for arsenic and mercury, the metals concentrations were below the CHHSL and total threshold limit concentration (TTL) for hazardous waste classification in all soil samples analyzed. Concentrations of arsenic were detected exceeding laboratory detection limits in just two of the soil samples. Arsenic concentrations were detected in the samples ranging from 1.8 mg/Kg to 7.0 mg/Kg. The reported arsenic concentrations exceed the CHHSL for residential land use of 0.07 mg/Kg; however, naturally-occurring arsenic concentrations in this geographic area commonly exceed these screening criteria. Because of this, the recommended acceptable risk management guideline concentration for arsenic in the San Francisco Bay Region (Duverge', 2011) is 12 mg/Kg. None of the arsenic concentrations exceed 12 mg/Kg.

Mercury concentrations were detected in two of the composite samples (SP-6-1 and SP-6-2) exceeding ¼ of the single compound CHHSL. The discrete samples were each therefore analyzed to determine possible elevated concentrations of mercury. The mercury concentrations detected in the discrete samples ranged from <0.5 mg/kg to 9.5 mg/kg with one concentration detected at 51 mg/kg. This mercury concentration exceeds the CHHSL of 18 mg/kg for residential uses and the hazardous waste threshold of 20 mg/Kg.

The other metals concentrations detected generally appear consistent with naturally-occurring concentrations in California (Scott, 1991).

Semi-volatile compounds were only detected in one of the composite samples collected from the stockpiles exceeding the laboratory reporting limits. Chrysene was detected in composite sample SP-2-1 at 0.043 mg/kg. There is no CHHSL established for this compound and therefore the results were compared to the San Francisco Regional Water Quality Control Board (SFRWQCB) Environmental Screening Levels (ESLs) for shallow soil for the protection of groundwater, gross contamination ceiling value (odors), and direct exposure (residential land use). The concentration detected in the soil samples did not exceed any of their respective ESLs.

Chrysotile fibers were detected exceeding the 0.10% detection limit in two of the nineteen cap soil samples analyzed by the PLM (CARB 435 1,000 Point Count) method. None of the concentrations detected exceed the BAAQMD limit of 0.25%.

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## **3.0 SUMMARY AND CONCLUSIONS**

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### **3.1 Previous Investigation**

#### **3.1.1 Mercury in Bedrock**

Extensive sampling and testing of ore vein rock was performed to evaluate mercury concentrations in this material. The testing results show that mercury concentrations exceed the California Human Health Screening Levels (CHHSLs) for residential use of 18 milligrams per kilogram (mg/kg) at only three locations, and none of the locations exceed the CHHSL for commercial and industrial uses. The hazardous waste threshold of 20 mg/kg was exceeded at two locations in the mine area, and at one location in the extreme northwest corner of the Site. The mercury testing results from the naturally-occurring outcrops were combined and a 95% Upper Confidence Limit (UCL) calculation was performed (Appendix C). The results show that the 95% UCL is 8.2 mg/kg which is well below the residential CHHSL and the hazardous waste concentration. Based on this analysis, the mercury in bedrock may not need to be mitigated.

#### **3.1.2 Former Ore Processing Area**

A former ore crusher and furnace was located near the former main mine portal. A number of borings were completed in the area after elevated mercury and nickel concentrations were identified in initial sampling of the area. The detected mercury contamination exceeded the CHHSLs for residential uses, but not commercial/industrial standards. The nickel concentrations were elevated but did not exceed either standard for direct exposure. Solubility testing showed that nickel from one sample exceeded the hazardous waste concentrations. Since residential development planned in this area, the soils with mercury exceeding residential standards should be excavated and removed from the Site. Based on the nickel results, the soils could require disposal as a hazardous waste. Stockpiling and resampling is recommended to evaluate concentrations prior to disposal.

#### **3.1.3 Petroleum Hydrocarbons in Fill**

Sampling was performed of fill soils in the lower, eastern area of the Site. Borehole drilling identified thin lenses (6 and 12 inches) of black, petroleum hydrocarbon material 3 to 6 feet below the surface in two areas. Comprehensive laboratory testing of this material identified only motor oil contamination. The concentrations exceeded the San Francisco



Regional Water Quality Control Board (SFRWQCB) thresholds for gross contamination (possible odors) for soils less than 3 meters deep, but not the updated direct exposure for construction workers (SFRWQCB, 2013).

#### **3.1.4 Spring Water Sampling**

Two springs and the quarry pond at the Site were sampled six continuous quarters during the 2009 investigation. One of the springs emanates from the former main haul line portal for the mine, and the other spring is in an area north of the mine and it drains to the quarry pond. Water from inside the mine was also sampled. The sampling results were compared to the very restrictive RWQCB Environmental Screening Levels (ESLs) for surface water screening levels for estuary habitats because this water may be captured by sub drains installed for the future development and eventually be discharged to Coyote Creek and the San Francisco Bay. The only constituents identified at potentially elevated concentrations in the samples collected were arsenic, thallium, and nickel. These metals were most likely naturally occurring and related to the hydrothermally altered and/or ultramafic rocks at the Site. The SFRWQCB may require this water to be treated prior to discharge to storm drains. It is possible that this water may be discharged instead to the planned sanitary sewers under permit with the treatment facility.

#### **3.1.5 Quarry Pond Sampling**

Water samples collected from the quarry pond identified methyl mercury concentrations that exceed the SFRWQCB ESLs for surface water screening levels for estuary habitats. Methyl mercury is soluble and is produced in water by sulfate reducing bacteria under low-oxygen conditions when elemental mercury is present in sufficient concentrations. The quarry pond is therefore capable of generating methyl mercury which likely occurs at depth in the pond during the summer months when algae depletes the deep portion of the pond of oxygen allowing anaerobic conditions to develop resulting in the production of methyl mercury. If the quarry pond water will be discharged off-site after development, measures should be taken to prevent release of elevated concentrations of methyl mercury. Likewise, any water storage planned for the new development should be designed to prevent low-oxygen conditions from developing.

#### **3.1.6 Naturally-Occurring Asbestos**

Serpentinite bedrock containing chrysotile asbestos (NOA) is present over large areas of the Site, as shown on the geologic map produced for the geotechnical investigation (Cornerstone, 2009). Five samples were collected from locations distributed throughout the Site and analyzed for NOA. The samples were analyzed by plane light microscopy (PLM) and CARB 435 400 Point Count methods. NOA (as chrysotile) was detected in all five of the bedrock samples analyzed

by PLM. Due to the high percentage of fibers in four of the bedrock samples, accurate point counting could not be performed, and therefore an estimate of 20-30 percent NOA, as chrysotile, was reported for the four samples. The concentrations in all of these samples exceed the Bay Area Air Quality Management District (BAAQMD) limit of 0.25% (State of California, 2002) and therefore a Dust Mitigation Plan is required to be submitted and approved by the BAAQMD. The plan must describe dust control measures during grading as well as long term dust control measures.

Three additional soil samples were collected from different depths to determine the NOA concentrations at depth in fill and deep colluvium in the northern end of the Site west of the existing Quarry Pond. The samples were analyzed by transmitting electron microscopy (TEM) methods because this test is able to resolve the smaller asbestos fibers that are in soils. Laboratory analyses of deeper, buried colluvium soils in this area detected NOA concentrations of only 0.002 and 0.003 percent. These concentrations are less than the BAAQMD criteria of 0.25% and also the DTSC Schools Division criteria of 0.01%. These soils are therefore suitable for capping of NOA in the bedrock at the Site for any of the planned redevelopment areas. These soils are largely covered by fill soils that contained higher concentrations of NOA which would have to be removed if the deeper soils are to be reused for cover material.

### **3.2 Current Investigation**

The current investigation was performed to evaluate potential threats to human health and the environment from the quarry reclamation activities at the Site (capping) and the soil quality of several large stockpiles that remain on the lower portion of the Site. Additional soil sampling was performed to evaluate these concerns. Twenty potholes were completed in the areas where capping of exposed bedrock with soil was performed. Nineteen composite samples were collected from the six stockpiles located on the lower portion of the Site. No pesticides, petroleum range hydrocarbons, or semi-volatile organic compounds were detected during the sampling that exceeded the regulatory thresholds.

Lead was detected at only one cap sampling location (80 mg/kg) that equals the regulatory standards for residential use. Mercury was detected in only one discrete stockpile sample that exceeded the regulatory guidelines for residential use (18 mg/kg) and the TTLC for hazardous waste (20 mg/kg). The sampling that was performed does not characterize the lateral and vertical extent of soils affected with elevated concentrations of metals, but there will be extensive grading of the Site including moving and spreading the large stockpile and well as excavation and regrading of the area where the lead in the soil cap exceeds the regulatory standard. Therefore, the affected soils will be extensively mixed which will reduce concentrations and therefore we do not believe it is necessary to excavate and off-haul the soils.

Naturally-occurring asbestos in rock has been identified across the Site that exceeds the BAAQMD and DTSC Schools Program acceptable risk guidelines at most locations. The concentrations detected exceed the BAAQMD limit of 0.25% (State of California, 2002) and therefore a Dust Mitigation Plan will be required to be submitted and approved by the BAAQMD prior to the commencement of grading activities. The Plan must describe dust control measures during grading as well as long term dust control measures. The BAAQMD will likely require perimeter dust monitoring to confirm that the effective asbestos dust control measures are occurring. Long-term dust control measures allowed in the Asbestos Airborne Toxic Control Measure (ATCM) (State of California, 2002) include capping with at least 3 inches of non-NOA containing soils, paving, establishment of a vegetative cover, and other measures deemed sufficient to prevent visible dust emissions when wind speeds exceed 10 miles per hour. It should be noted that planned cut areas of exposed bedrock will not support vegetation and will need a thin soil cap. There are on-Site materials that can be used for this purpose (that does not contain NOA) though import soils may need to be imported if sufficient quantity is not present on Site.

In addition to Air Board regulations, there are CalOSHA worker safety criteria for asbestos that the grading contractor will need to be aware of as well as any other site personnel who could be working in the NOA areas where exposure could occur during construction activities. For these personnel there are training requirements that range up from a minimum of 3 hours of asbestos awareness training. The trade contractors should be notified of the CalOSHA worker safety requirements. Post-grading and during Site development, MCI recommends that all subsurface excavations in the areas with NOA be monitored to prevent uncontrolled release and spreading of NOA materials during and after excavation. NOA is difficult to dispose off-Site and therefore excavated NOA materials should be placed back in utility trenches, if possible, or placed as fill and covered elsewhere at the Site to avoid off-haul costs.

The DTSC Schools Program regulates new and expanding schools and will review the application for the planned school at the Site. The State of California DTSC Schools Program considers less than 0.01% asbestos sufficiently protective for schools use. The NOA underlying the school will require more extensive capping with hardscape or soils containing less than 0.01% NOA, and a long-term Operations and Maintenance Agreement with the school district to control releases of NOA in the future.

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## **4.0 LIMITATIONS**

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This report was prepared for the use of the KB Home for evaluating soil quality at the Site. The scope of work performed on this Site does not represent an exhaustive study, but rather a reasonable inquiry consistent with environmental principles generally accepted at this time and

location. We make no warranty, expressed or implied, except that our services have been performed in this manner. Additional environmental conditions may be present that are not reasonably ascertainable. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed. Changes in applicable standards can occur as the result of legislation or regulatory guidelines that may invalidate, wholly or in part, the findings of this report.

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# **TABLES**



**Table 1. Summary Results for Pesticides - Reclamation Fill Soil**

(Concentrations in milligrams per kilogram [mg/kg])

Sampling Date	Sample ID	Approximate Depth (Feet Below Existing Grade)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Total DDT	alpha-Chlordane	Chlordane	gamma-Chlordane
1/14/13	TP-10	1-1½	<0.002	0.0083	<0.002	0.0083	<0.002	<0.020	<0.002
1/15/13	TP-10	11-11½	0.0031	0.038	0.0041	0.0452	<0.0038	<0.041	<0.0032
1/14/13	TP-11	½-1	<0.002	0.0023	<0.002	0.0023	<0.002	<0.020	<0.002
1/14/13	TP-12	½-1	<0.030	<0.020	<0.027	<0.030	<0.038	<0.410	<0.032
1/14/13	TP-13	0-½	<0.030	<0.020	<0.027	<0.030	<0.038	<0.410	<0.032
1/15/13	TP-14	1-1½	0.0036	0.200	0.130	0.3336	0.014	0.088	0.013
1/15/13	TP-15	1-1½	<0.003	<0.002	<0.0027	<0.003	<0.0038	<0.041	<0.0032
1/15/13	TP-16	½-1	<0.0076	0.007	0.012	0.019	0.022	<0.100	<0.0079
1/15/13	TP-17	½-1	<0.0076	0.013	0.014	0.027	<0.0094	<0.100	<0.0079
1/15/13	TP-18	1-1½	<0.0076	0.016	<0.0067	0.016	<0.0094	<0.100	<0.0079
1/15/13	TP-19	½-1	<0.0076	<0.0051	<0.0067	<0.0076	<0.0094	<0.100	<0.0079
1/15/13	TP-20	½-1	<0.0076	0.065	0.041	0.106	0.024	<0.100	0.011
1/15/13	TP-21	1-1½	<0.0076	<0.0051	<0.0067	<0.0076	<0.0094	<0.100	<0.0079
1/16/13	TP-22	1½-2	<0.015	<0.010	0.018	0.018	<0.019	<0.210	<0.016
1/16/13	TP-23	½-1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002
1/16/13	TP-24	½-1	0.0078	0.180	0.070	0.2578	<0.0038	<0.041	<0.0032
1/16/13	TP-26	½-1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002
1/16/13	TP-27	½-1	<0.002	<0.002	<0.002	<0.002	<0.002	<0.020	<0.002
1/16/13	TP-28	0-½	0.0075	0.013	0.010	0.0305	<0.0038	<0.041	<0.0032
1/16/13	TP-29	2-2½	0.0045	0.041	0.018	0.0635	<0.0038	<0.041	<0.0032
<b>CHHSL – Residential Land Use</b>			<b>2.3</b>	<b>1.6</b>	<b>1.6</b>	<b>NE</b>	<b>NE</b>	<b>0.43</b>	<b>NE</b>
<b>TTLC</b>			<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1.0</b>	<b>NE</b>	<b>2.5</b>	<b>NE</b>

Total DDT Sum of the concentrations of 4,4'-DDD+4,4'-DDE+4,4'-DDT

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties – Residential Land Use, Cal/EPA, January 2005 and Updates.

TTLC Total threshold limit concentration for hazardous waste classification

NE Not Established



**Table 2. Summary Results for Metals - Reclamation Fill Soil**

(Concentrations in milligrams per kilogram [mg/kg])

Sampling Date	Sample ID	Approximate Depth (Feet Below Existing Grade)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1/14/13	TP-10	1-1½	<5.0	<1.7	120	<2.0	<1.0	44	11	31	6.4	<0.50	<5.0	46	<5.0	<1.0	<5.0	47	45
1/15/13	TP-10	11-11½	<5.0	<1.7	110	<2.0	<1.0	49	11	24	13	<0.50	<5.0	59	<5.0	<1.0	<5.0	38	50
1/14/13	TP-11	½-1	12	<1.7	73	<2.0	<1.0	560	75	12	8.7	<0.50	<5.0	1,500	<5.0	<1.0	<5.0	27	34
1/14/13	TP-12	½-1	<5.0	<1.7	170	<2.0	<1.0	100	18	27	13	<0.50	<5.0	190	<5.0	<1.0	<5.0	45	48
1/14/13	TP-13	0-½	<5.0	<1.7	150	<2.0	<1.0	91	16	34	28	<0.50	<5.0	140	<5.0	<1.0	<5.0	44	65
1/15/13	TP-14	1-1½	<5.0	<1.7	130	<2.0	<1.0	98	20	25	6.8	<0.50	<5.0	130	<5.0	<1.0	<5.0	60	48
1/15/13	TP-15	1-1½	6.7	<1.7	58	<2.0	<1.0	310	50	10	4.7	<0.50	<5.0	970	<5.0	<1.0	<5.0	25	25
1/15/13	TP-16	½-1	<5.0	<1.7	200	<2.0	<1.0	120	22	28	11	<0.50	<5.0	240	<5.0	<1.0	<5.0	45	48
1/15/13	TP-17	½-1	<5.0	<1.7	120	<2.0	<1.0	67	13	25	<b>80</b>	<0.50	<5.0	120	<5.0	<1.0	<5.0	35	57
1/15/13	TP-18	1-1½	<5.0	<1.7	140	<2.0	<1.0	55	12	24	7.4	<0.50	<5.0	87	<5.0	<1.0	<5.0	37	48
1/15/13	TP-19	½-1	<5.0	<1.7	93	<2.0	<1.0	210	34	21	8.1	<0.50	<5.0	550	<5.0	<1.0	<5.0	34	42
1/15/13	TP-20	½-1	<5.0	2.2	160	<2.0	<1.0	65	14	33	43	<0.50	<5.0	110	<5.0	<1.0	<5.0	42	81
1/15/13	TP-21	1-1½	<5.0	<1.7	130	<2.0	<1.0	63	14	38	26	<0.50	<5.0	130	<5.0	<1.0	<5.0	33	61
1/16/13	TP-22	1½-2	<5.0	<1.7	330	<2.0	<1.0	93	35	28	11	0.77	<5.0	260	<5.0	<1.0	<5.0	38	54
1/16/13	TP-23	½-1	8.0	<1.7	84	<2.0	<1.0	370	35	21	4.5	1.7	<5.0	610	<5.0	<1.0	<5.0	44	38
1/16/13	TP-24	½-1	<5.0	<1.7	170	<2.0	<1.0	42	17	30	11	<0.50	<5.0	67	<5.0	<1.0	<5.0	38	53
1/16/13	TP-26	½-1	<5.0	<1.7	120	<2.0	<1.0	180	22	30	6.5	<0.50	<5.0	330	<5.0	<1.0	<5.0	34	46
1/16/13	TP-27	½-1	<5.0	<1.7	220	<2.0	<1.0	200	28	36	7.4	<0.50	<5.0	430	<5.0	<1.0	<5.0	37	48
1/16/13	TP-28	0-½	<5.0	2.2	150	<2.0	<1.0	50	12	26	14	<0.50	<5.0	87	<5.0	<1.0	<5.0	34	49
1/16/13	TP-29	2-2½	<5.0	<1.7	160	<2.0	<1.0	70	13	27	12	<0.50	<5.0	120	<5.0	<1.0	<5.0	42	53
<b>CHHSLs – Residential Land Use</b>			<b>30</b>	<b>0.07*</b>	<b>5,200</b>	<b>16</b>	<b>1.7</b>	<b>100,000<sup>1</sup></b>	<b>660</b>	<b>3,000</b>	<b>80</b>	<b>18</b>	<b>380</b>	<b>1,600</b>	<b>380</b>	<b>380</b>	<b>5.0</b>	<b>530</b>	<b>23,000</b>
<b>TTLIC</b>			<b>500</b>	<b>500</b>	<b>10,000</b>	<b>75</b>	<b>100</b>	<b>2,500</b>	<b>8,000</b>	<b>2,500</b>	<b>1,000</b>	<b>20</b>	<b>3,500</b>	<b>2,000</b>	<b>100</b>	<b>500</b>	<b>700</b>	<b>2,400</b>	<b>5,000</b>

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.  
 CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties – Residential Land Use, Cal/EPA, January 2005 and Updates.  
 TTLIC Total threshold limit concentration for hazardous waste classification  
 \* Cal/EPA generally does not require cleanup of soil to below background levels. Natural background concentrations of arsenic are often well above the CHHSL goals in soil.  
 1 CHHSL for Chromium (III)  
**Bold indicates exceedance of regulatory threshold**





**Table 3. Summary Results for Total Petroleum Hydrocarbons & Semi-VOCs**

(Concentrations in milligrams per kilogram [mg/kg])

Sampling Date	Sample ID	Approximate Depth (Feet Below Existing Grade)	TPH Gas	TPH Diesel	Anthracene	Chrysene	1-Methyl naphthalene	2-Methyl naphthalene	Phenanthrene
1/15/13	TP-10	11-11½	<0.100	2.0	0.072	<0.0995	0.054	0.074	0.075
1/8/13	SP-2-1 (A,B,C,D)	5-5½,8-8½,2½-3,11-11½	--	--	<0.0484	0.043	<0.0377	<0.03845	<0.04855
ESLs (Table - G) <sup>1</sup>			83	83	2.8	23	NE	0.25	11
ESLs (Table - H-2) <sup>2</sup>			100	100	500	1,000	NE	500	500
ESLs (Table - K-1) <sup>3</sup>			110	110	3,100	62	NE	46	340

TPH Total Petroleum Hydrocarbons  
 < Indicates that the compound was not detected at or above stated laboratory detection limits.  
 1 Regional Water Quality Control Board Environmental Screening Levels – Table G Soil Screening Levels – Protection of Groundwater (Groundwater is a current or potential drinking water resource) – November 2007 (Revised May 2008).  
 2 Regional Water Quality Control Board Environmental Screening Levels – Table H-2 Components for Shallow Soil Gross Contamination Ceiling Levels - Odors (Groundwater is a current or potential drinking water resource) – November 2007 (Revised May 2008).  
 3 Regional Water Quality Control Board Environmental Screening Levels – Table K-1 Direct Exposure Soil Screening Levels – Residential Exposure Scenario (Groundwater is a current or potential drinking water resource) – November 2007 (Revised May 2008).  
 NE Not Established  
 -- Not Analyzed



**Table 4. Summary Results for NOA – Reclamation Fill Soils**

Sample	Sampling Depth (ft)	Polarized Light Microscopy <sup>1</sup>	Transmission Electron Microscopy <sup>2</sup>
TP-10	2-3½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)	--
TP-11	0-1	<b>0.30% Chrysotile (3 Points Counted)</b>	--
TP-13	0-1	<0.10% ND (0 Points Counted)	--
TP-13	1-4½	<b>0.80% Chrysotile (8 Points Counted)</b>	--
TP-14	0-1	<0.10% ND (0 Points Counted)	--
TP-16	0-3	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)	--
TP-17	0-2	0.10% Chrysotile (1 Points Counted)	--
TP-18	0-2	<b>0.40% Chrysotile (4 Points Counted)</b>	--
TP-19	0-1	--	<b>0.030% Chrysotile</b>
TP-21	0-1½	0.20% Chrysotile (2 Points Counted)	--
TP-22	0-3	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)	--
TP-24	0-2	<0.10% ND (0 Points Counted)	--
TP-26	0-1½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)	--
TP-27	0-1½	<0.10% ND (0 Points Counted)	--
TP-28	0-1	<0.10% ND (0 Points Counted)	--
TP-29	0-3	<0.10% ND (0 Points Counted)	--
<b>DTSC Screening Level</b>		<b>0.25%</b>	<b>&lt;25% of Samples &gt;0.01%</b>

< Indicates that the compound was not detected at or above stated laboratory detection limits.

-- Not Analyzed

ND Not Detected

<sup>1</sup> CAL ARB Method 435 – 1,000 point count

<sup>2</sup> TEM NOA EPA /CARB Quantitative

<sup>3</sup> Asbestos observed in the non-counted portion of the sample

DTSC Screening Level - DTSC School Program screening concentration

**Bold indicate concentrations that exceed regulatory thresholds**



**Table 5. Summary Results for Pesticides - Stockpile Sampling**

(Concentrations in milligrams per kilogram [mg/kg])

Sampling Date	Sample ID	Approximate Depth (Feet Below Existing Grade)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Total DDT	alpha-Chlordane	Chlordane	gamma-Chlordane	Dieldrin
1/7/13	SP-1-1 (1A&1B)	1A & 1B at 2½-3 & 5-5½	<0.0076	0.0095	0.021	0.0305	<0.0094	<0.100	<0.0079	<0.0058
1/7/13	SP-1-2 (2A&2B)	2A & 2B at 2½-3 & 5-5½	<0.003	0.0068	0.010	0.0168	<0.0038	0.060	<0.0032	<0.0023
1/7/13	SP-1-3 (3A&3B)	3A & 3B at 2½-3 & 5-5½	<0.0076	0.019	0.023	0.042	<0.0094	<0.100	<0.0079	<0.0058
1/7/13	SP-1-4 (4A&4B)	4A & 4B at 2½-3 & 5-5½	<0.003	0.0039	0.012	0.0159	<0.0038	<0.041	<0.0032	<0.0023
1/8/13	SP-2-1 (A,B,C,D)	5-5½, 8-8½, 2½-3, 11-11½	<0.015	0.014	0.039	0.053	<0.019	<0.210	<0.016	<0.012
1/8/13	SP-2-2 (A,B,C,D)	7-7½, 9-9½, 1½-2, 4-4½	<0.030	0.023	0.069	0.092	<0.038	<0.410	<0.032	<0.023
1/8/13	SP-3-1 (A,B,C,D)	1-1½, 5-5½, 2½-3, 4-4½	<0.015	<0.010	0.033	0.033	<0.019	<0.210	<0.016	<0.012
1/9/13	SP-4-1 (A,B,C,D)	2½-3, 6-6½, 12½-13, 4-4½	0.0086	0.020	0.022	0.0506	<0.0094	<0.100	<0.0079	<0.0058
1/9/13	SP-4-2 (A,B,C,D)	2½-3, 4-4½, 9½-10, 5-5½	0.0055	0.069	0.041	0.1155	0.0075	0.120	0.0076	0.0037
1/9/13	SP-4-2A	2½-3	0.010	0.044	0.036	0.090	<0.0094	<0.100	<0.0079	<0.0058
1/9/13	SP-4-2B	4-4½	0.010	0.190	0.066	0.266	<0.0094	<0.100	<0.0079	<0.0058
1/9/13	SP-4-2C	9½-10	0.010	0.039	0.027	0.076	<0.0094	<0.100	<0.0079	<0.0058
1/9/13	SP-4-2D	5-5½	<0.0076	0.055	0.056	0.111	<0.0094	0.310	<0.0079	<0.0058
1/9/13	SP-4-3 (A,B,C,D)	1½-2, 8-8½, 5-5½, 12-12½	0.010	0.026	0.022	0.058	<0.0094	<0.100	<0.0079	<0.0058
1/9/13	SP-4-4 (A,B,C,D)	3-3½, 7-7½, 11-11½, 2-2½	0.009	0.013	0.019	0.041	<0.0094	<0.100	<0.0079	<0.0058
1/10/13	SP-5-1 (1A&1B)	2½-3, 6-6½; 1½-2, 5-5½	0.037	0.034	0.059	0.130	<0.038	<0.410	<0.032	<0.023
1/10/13	SP-5-2 (2A&2B)	4-4½, 7-7½; 2-2½, 5-5½	<0.030	0.023	0.056	0.079	<0.038	<0.410	<0.032	<0.023
1/10/13	SP-5-3 (3A&3B)	3-3½, 6-6½; 4-4½, 9-9½	<0.030	0.035	0.056	0.091	<0.038	<0.410	<0.032	<0.023
1/10/13	SP-5-4 (4A&4B)	2-2½, 7-7½; 4-4½, 8-8½	<0.030	0.037	0.058	0.095	<0.038	<0.410	<0.032	<0.023
<b>CHHSL – Residential Land Use</b>			<b>2.3</b>	<b>1.6</b>	<b>1.6</b>	<b>NE</b>	<b>NE</b>	<b>0.43</b>	<b>NE</b>	<b>0.035</b>
<b>TTLIC</b>			<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1.0</b>	<b>NE</b>	<b>2.5</b>	<b>NE</b>	<b>8.0</b>

Total DDT Sum of the concentrations of 4,4'-DDD+4,4'-DDE+4,4'-DDT

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties – Residential Land Use, Cal/EPA, January 2005 and Updates.

TTLIC Total threshold limit concentration for hazardous waste classification

NE Not Established



**Table 5. Summary Results for Pesticides - Stockpile Sampling (Continued)**

(Concentrations in milligrams per kilogram [mg/kg])

Sampling Date	Sample ID	Approximate Depth (Feet Below Existing Grade)	4,4'-DDD	4,4'-DDE	4,4'-DDT	Total DDT	alpha-Chlordane	Chlordane	gamma-Chlordane	Dieldrin
1/10/13	SP-6-1	6-6½, 12-12½, 9-9½, 3-3½	<0.030	0.033	0.063	0.096	0.053	<0.410	0.039	<0.023
1/14/13	SP-6-2	3-3½, 6-6½, 1-1½, 9-9½	0.035	0.033	0.054	0.122	<0.028	<0.310	<0.024	<0.017
1/14/13	SP-6-3	4-4½, 12-12½, 2-2½, 8-8½	<0.0076	0.0087	0.020	0.0287	<0.0094	<0.100	<0.0079	<0.0058
1/14/13	SP-6-4	8-8½, 4-4½, 12-12½, 2-2½	<0.023	0.024	<0.020	0.023	<0.028	<0.310	<0.024	<0.017
<b>CHHSL</b>			<b>2.3</b>	<b>1.6</b>	<b>1.6</b>	<b>NE</b>	<b>NE</b>	<b>0.43</b>	<b>NE</b>	<b>0.035</b>
<b>TTLIC</b>			<b>NE</b>	<b>NE</b>	<b>NE</b>	<b>1.0</b>	<b>NE</b>	<b>2.5</b>	<b>NE</b>	<b>8.0</b>

Total DDT Sum of the concentrations of 4,4'-DDD+4,4'-DDE+4,4'-DDT

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties – Residential Land Use, Cal/EPA, January 2005 and Updates.

TTLIC Total threshold limit concentration for hazardous waste classification

NE Not Established



**Table 6. Summary Results for Metals - Stockpile Sampling**

(Concentrations in milligrams per kilogram [mg/kg])

Sampling Date	Sample ID	Approximate Depth (Feet Below Existing Grade)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
1/7/13	SP-1-1 (1A&1B)	1A & 1B at 2½-3 & 5-5½	<5.0	<1.7	160	<2.0	<1.0	89	17	29	9.1	<0.50	<5.0	140	<5.0	<1.0	<5.0	48	58
1/7/13	SP-1-2 (2A&2B)	2A & 2B at 2½-3 & 5-5½	<5.0	1.8	180	<2.0	<1.0	77	16	32	11	<0.50	<5.0	120	<5.0	<1.0	<5.0	47	54
1/7/13	SP-1-3 (3A&3B)	3A & 3B at 2½-3 & 5-5½	<5.0	<1.7	160	<2.0	<1.0	84	18	32	8.8	<0.50	<5.0	140	<5.0	<1.0	<5.0	47	52
1/7/13	SP-1-4 (4A&4B)	4A & 4B at 2½-3 & 5-5½	<5.0	2.7	130	<2.0	<1.0	59	13	29	13	<0.50	<5.0	100	<5.0	<1.0	<5.0	33	56
1/8/13	SP-2-1 (A,B,C,D)	5-5½,8-8½,2½-3,11-11½	<5.0	<1.7	180	<2.0	<1.0	100	16	25	15	0.55	<5.0	190	<5.0	<1.0	<5.0	41	50
1/8/13	SP-2-2 (A,B,C,D)	7-7½,9-9½,1½-2,4-4½	<5.0	<1.7	190	<2.0	<1.0	71	15	24	13	0.54	<5.0	160	<5.0	<1.0	<5.0	38	43
1/8/13	SP-3-1 (A,B,C,D)	1-1½,5-5½,2½-3,4-4½	<5.0	<1.7	140	<2.0	<1.0	110	20	29	9.2	0.84	<5.0	280	<5.0	<1.0	<5.0	39	50
1/9/13	SP-4-1 (A,B,C,D)	2½-3,6-6½,12½-13,4-4½	<5.0	1.9	160	<2.0	<1.0	80	16	31	14	<0.50	<5.0	130	<5.0	<1.0	<5.0	41	58
1/9/13	SP-4-2 (A,B,C,D)	2½-3, 4-4½, 9½-10, 5-5½	<5.0	7.0	440	<2.0	<1.0	54	12	31	37	1.1	<5.0	100	<5.0	<1.0	<5.0	41	62
1/9/13	SP-4-2A	2½-3	--	--	--	--	--	--	--	--	14	--	--	--	--	--	--	--	--
1/9/13	SP-4-2B	4-4½	--	--	--	--	--	--	--	--	39	--	--	--	--	--	--	--	--
1/9/13	SP-4-2C	9½-10	--	--	--	--	--	--	--	--	13	--	--	--	--	--	--	--	--
1/9/13	SP-4-2D	5-5½	--	--	--	--	--	--	--	--	15	--	--	--	--	--	--	--	--
1/9/13	SP-4-3 (A,B,C,D)	1½-2,8-8½,5-5½,12-12½	<5.0	<1.7	150	<2.0	<1.0	64	15	36	13	<0.50	<5.0	77	<5.0	<1.0	<5.0	52	62
1/9/13	SP-4-4 (A,B,C,D)	3-3½,7-7½,11-11½,2-2½	<5.0	<1.7	150	<2.0	<1.0	61	13	28	11	<0.50	<5.0	100	<5.0	<1.0	<5.0	41	51
1/10/13	SP-5-1 (1A&1B)	2½-3,6-6½; 1½-2,5-5½	<5.0	<1.7	160	<2.0	<1.0	60	12	27	15	<0.50	<5.0	120	<5.0	<1.0	<5.0	37	54
1/10/13	SP-5-2 (2A&2B)	4-4½,7-7½; 2-2½,5-5½	<5.0	2.3	130	<2.0	<1.0	71	13	23	14	<0.50	<5.0	150	<5.0	<1.0	<5.0	33	46
1/10/13	SP-5-3 (3A&3B)	3-3½,6-6½; 4-4½,9-9½	<5.0	<1.7	170	<2.0	<1.0	53	12	26	14	<0.50	<5.0	91	<5.0	<1.0	<5.0	40	50
1/10/13	SP-5-4 (4A&4B)	2-2½,7-7½; 4-4½,8-8½	<5.0	<1.7	150	<2.0	<1.0	72	13	28	15	<0.50	<5.0	120	<5.0	<1.0	<5.0	41	51
1/10/13	SP-6-1 (A,B,C,D)	6-6½,12-12½,9-9½,3-3½	<5.0	<1.7	130	<2.0	<1.0	56	12	28	15	5.5	<5.0	79	<5.0	<1.0	<5.0	43	77
1/10/13	SP-6-1A	6-6½	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--
1/10/13	SP-6-1B	12-12½	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--
1/10/13	SP-6-1C	9-9½	--	--	--	--	--	--	--	--	--	7.5	--	--	--	--	--	--	--
1/10/13	SP-6-1D	3-3½	--	--	--	--	--	--	--	--	--	9.5	--	--	--	--	--	--	--
1/14/13	SP-6-2 (A,B,C,D)	3-3½,6-6½,1-1½,9-9½	<5.0	<1.7	110	<2.0	<1.0	180	19	28	11	6.6	<5.0	230	<5.0	<1.0	<5.0	40	42
1/14/13	SP-6-2A	3-3½	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--
1/14/13	SP-6-2B	6-6½	--	--	--	--	--	--	--	--	--	<b>51</b>	--	--	--	--	--	--	--
1/14/13	SP-6-2C	1-1½	--	--	--	--	--	--	--	--	--	<0.50	--	--	--	--	--	--	--
1/14/13	SP-6-2D	9-9½	--	--	--	--	--	--	--	--	--	0.50	--	--	--	--	--	--	--
1/14/13	SP-6-3 (A,B,C,D)	4-4½,12-12½,2-2½,8-8½	<5.0	<1.7	200	<2.0	<1.0	54	13	30	9.8	<0.50	<5.0	83	<5.0	<1.0	<5.0	41	48
1/14/13	SP-6-4 (A,B,C,D)	8-8½,4-4½,12-12½,2-2½	<5.0	<1.7	130	<2.0	<1.0	63	16	27	6.9	<0.50	<5.0	99	<5.0	<1.0	<5.0	46	47
<b>CHHSLs – Residential Land Use<sup>1</sup></b>			<b>30</b>	<b>0.07*</b>	<b>5,200</b>	<b>16</b>	<b>1.7</b>	<b>100,000<sup>1</sup></b>	<b>660</b>	<b>3,000</b>	<b>80</b>	<b>18</b>	<b>380</b>	<b>1,600</b>	<b>380</b>	<b>380</b>	<b>5.0</b>	<b>530</b>	<b>23,000</b>
<b>TTLc</b>			<b>500</b>	<b>500</b>	<b>10,000</b>	<b>75</b>	<b>100</b>	<b>2,500</b>	<b>8,000</b>	<b>2,500</b>	<b>1,000</b>	<b>20</b>	<b>3,500</b>	<b>2,000</b>	<b>100</b>	<b>500</b>	<b>700</b>	<b>2,400</b>	<b>5,000</b>

<D.L. Indicates that the compound was not detected at or above stated laboratory detection limits.

CHHSLs California Human Health Screening Levels in Evaluation of Contaminated Properties – Residential Land Use, Cal/EPA, January 2005 and Updates.

TTLc Total threshold limit concentration for hazardous waste classification

\* Cal/EPA generally does not require cleanup of soil to below background levels. Natural background concentrations of arsenic are often well above the CHHSL goals in soil.

1 CHHSL for Chromium (III)

-- Not Analyzed

**Bold** indicate concentrations that exceed regulatory thresholds



**Table 7. Summary Results for NOA – Stockpile Sampling**

Sample	Sampling Depths (ft)	Polarized Light Microscopy <sup>1</sup>
SP-1-1	2½-3 & 5-5½	0.20% Chrysotile (2 Points Counted)
SP-1-2	2½-3 & 5-5½	0.10% Chrysotile (1 Points Counted)
SP-1-3	2½-3 & 5-5½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted))
SP-1-4	2½-3 & 5-5½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)
SP-2-1	5-5½, 8-8½, 2½-3, 11-11½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)
SP-2-2	7-7½, 9-9½, 1½-2, 4-4½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)
SP-3-1	1-1½, 5-5½, 2½-3, 4-4½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)
SP-4-1	2½-3, 6-6½, 12½-13, 4-4½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)
SP-4-2	2½-3, 4-4½, 9½-10, 5-5½	<0.10% ND (0 Points Counted)
SP-4-3	1½-2, 8-8½, 5-5½, 12-12½	<0.10% ND (0 Points Counted)
SP-4-4	3-3½, 7-7½, 11-11½, 2-2½	<0.10% Chrysotile <sup>3</sup> (0 Points Counted)
SP-5-1	2½-3, 6-6½; 1½-2, 5-5½	<0.10% ND (0 Points Counted)
SP-5-2	4-4½, 7-7½; 2-2½, 5-5½	<0.10% ND (0 Points Counted)
SP-5-3	3-3½, 6-6½; 4-4½, 9-9½	<0.10% ND (0 Points Counted)
SP-5-4	2-2½, 7-7½; 4-4½, 8-8½	<0.10% ND (0 Points Counted)
SP-6-1	6-6½, 12-12½, 9-9½, 3-3½	<0.10% ND (0 Points Counted)
SP-6-2	3-3½, 6-6½, 1-1½, 9-9½	<0.10% ND (0 Points Counted)
SP-6-3	4-4½, 12-12½, 2-2½, 8-8½	<0.10% ND (0 Points Counted)
SP-6-4	8-8½, 4-4½, 12-12½, 2-2½	<0.10% ND (0 Points Counted)
<b>DTSC Screening Level/BAAQMD</b>		<b>0.25%</b>

< Indicates that the compound was not detected at or above stated laboratory detection limits.

-- Not Analyzed

ND Not Detected

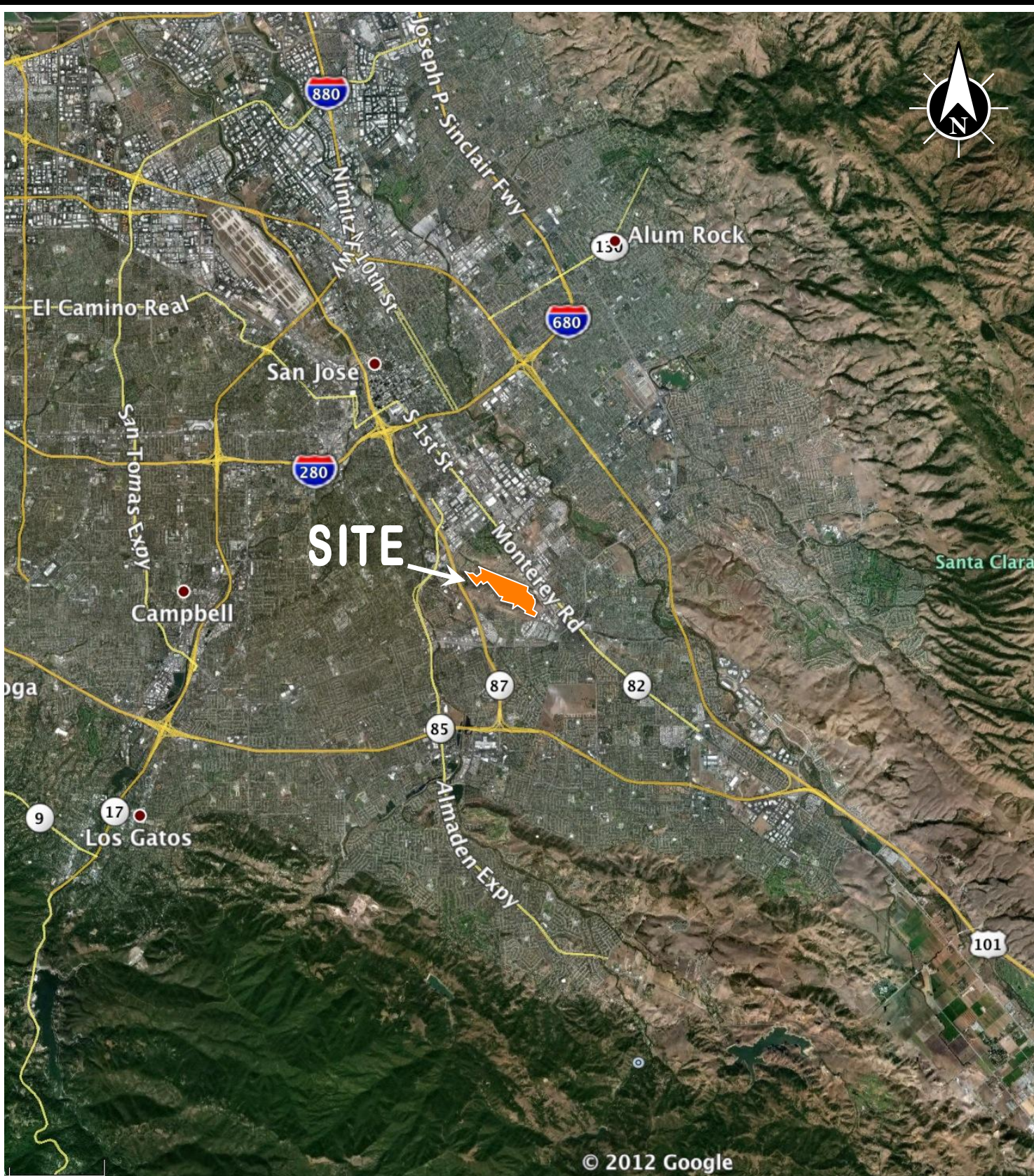
<sup>1</sup> CAL ARB Method 435 – 1,000 point count

<sup>2</sup> TEM NOA EPA /CARB Quantitative

<sup>3</sup> Asbestos observed in the non-counted portion of the sample

DTSC Screening Level - DTSC School Program screening concentration

## FIGURES



### Vicinity Map

Communication Hill East  
San Jose, California

**FIGURE 1**





**LEGEND:**

- Approximate Site Boundary
- Estimated Limit of Quarried Area
- + Approximate Test Pit Sampling Location

**BOLD indicates exceedance of regulatory thresholds**

Approximate Graphical Scale (Ft.)

0      600      1,200

**Site Plan**  
**Test Pit Sampling Locations**  
 Communication Hill  
 San Jose, California

**FIGURE 2**

**Approximate Site Boundary**

**See Figure 4**

**TP-18 Sample Depth 0-2'**  
**0.40% Chrysotile (PLM)**

**See Figure 3**

**TP-21 Sample Depth 0-1½'**  
**0.020% Chrysotile (PLM)**

**TP-19 Sample Depth ½-1'**  
**0.030% Chrysotile (TEM)**

<b>TP-17</b>	<b>mg/Kg</b>
<b>Sample Depth ½-1'</b>	<b>Lead 80</b>
<b>Sample Depth 0-2'</b>	<b>0.10% Chrysotile (PLM)</b>

**TP-11 Sample Depth 0-1'**  
**0.30% Chrysotile (PLM)**

**TP-13 Sample Depth 1-4½'**  
**0.80% Chrysotile (PLM)**



**LEGEND:**

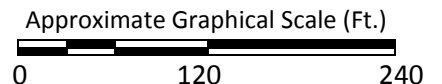
- Approximate Site Boundary
- Approximate Stockpile Boundaries
- Approximate Stockpile Sampling Location
- Approximate Test Pit Sampling Location

**Stockpiled Asphalt (Removed)**

**Active Recycling Operation**

SP-6-2B mg/Kg  
Sample Depth 6-6½'  
Mercury 51

TP-17 mg/Kg  
Sample Depth ½-1'  
Lead 80



**Site Plan**  
**Stockpile Sampling Locations**  
Communication Hill  
San Jose, California

**FIGURE 3**

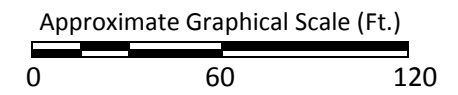
Google earth

TP-10  
© 2013 Google



**LEGEND:**

	Approximate Site Boundary
	Approximate Stockpile Boundaries
	Approximate Stockpile Sampling Location



**Site Plan**  
**Stockpile Sampling Locations**  
 Communication Hill  
 San Jose, California

**FIGURE 4**

**Appendix A**  
**Test Pit Logs**

## **FIELD PROCEDURES**

This section describes the soil sampling field methods that were used to evaluate the potential environmental concerns described previously. Included is a description of the sampling equipment, the methods of sampling, and quality assurance and quality control (QA/QC) practices including equipment decontamination.

### **Collection of Soil Samples**

Soil samples were collected using a small track-mounted excavator. The excavator was used to dig a pothole through the soil caps and into the bedrock material, and to pothole into the stockpiles. Samples were then collected from the sidewalls of the potholes. If the excavation was too deep to enter, the samples were collected from the soil in the bucket of the excavator from the specified depth. Soil samples for OCPs, metals, Semi-VOC and total petroleum hydrocarbon testing were collected by hand from the pothole sidewalls and stockpile locations using new, disposable, laboratory supplied 4 ounce glass jars. After sample collection the Teflon lined lid was securely fastened on the jar and the jar was labeled with a unique sample identification number. New gloves were worn by the sampling personnel and were changed between sampling locations and discarded. The samples were then placed in an insulated cooler chilled to 4 degrees +/- 2 degrees Celsius and hand delivered by MCI personnel to a California-certified analytical laboratory.

Soil samples collected for asbestos testing were collected by hand from the reclamation soils and stockpile soils with a small trowel or pick and the samples were placed in new gallon-size freezer bag with a ziplock top. The non-dedicated sampling equipment (e.g., small trowel or pick) was decontaminated to prevent cross contamination of soil particles that may contain NOA fibers. The equipment was washed in distilled water and then double rinsed in distilled water to remove all soil particles. The sample bags were labeled with a unique sample identification number. The samples were then transported to a California-certified analytical laboratory. There is currently no California certification for NOA testing, but those samples were analyzed by Asbestos TEM Lab in Berkeley which is a nationally certified NIST/NVLAP laboratory.

## **DECONTAMINATION**

All equipment was decontaminated as follows:

- Rinse with high-pressure/hot water steam cleaner;
- Wash external surfaces of the hand sampling equipment with distilled water and Lixinox; scrub as necessary to remove dirt, grime, grease, and oil;
- Wash internal surfaces of equipment as described above;
- Rinse with high-pressure/hot water steam cleaner;
- Rinse with potable water; and,
- Air or towel dry with paper towels.



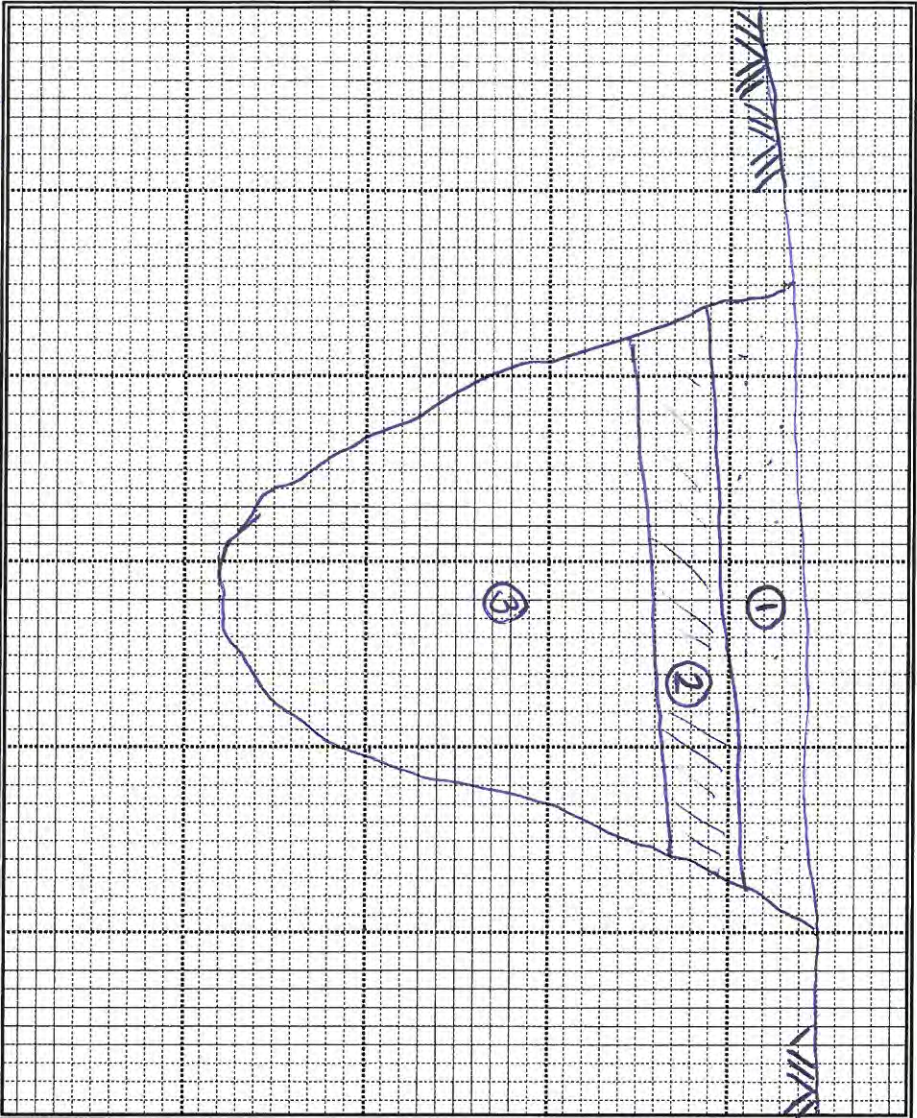
**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/14/13 - 1/15/13 Elevation:  
Project Name: Pum Hill Inclination:  
Project Number: Aspect:

### STRATUM DESCRIPTION

- ① Fill - Silty Sand w/ gravel, light Brn, fine to coarse gravel ~0-2'
- ② Fill - Sandy Clay w/ gravel, Olive Brn, fine to coarse ~2-4'
- ③ Fill - Silty Sand w/ gravel, <sup>Red</sup> Brn to Olive Brn, fine to coarse Plastic Rope observed @ 5 1/2' Large Pieces of AC @ 8-9' 4" Thick, 18" long, 12" wide and metal wire observed
- Wood debris + brick pieces. plastic pipe observed @ 11-12'
- Small pockets of greenish soil observed, possible faint HC odor/organic odor
- Greenish material w/ organic smell @ 13-14' with wood pieces / tree branches



Scale: 1" = 5'

Orientation: N/S

### REMARKS

1-1 1/2' Sampled @ 1:14:13 13:58  
2 1/2-3' Sampled @ 1 14:21  
5-5 1/2' Sampled @ 1:15:13 11:58  
11-11 1/2' Sampled @ 1 12:07

Logged By:

Test Pit Number:

Figure Number:

QW

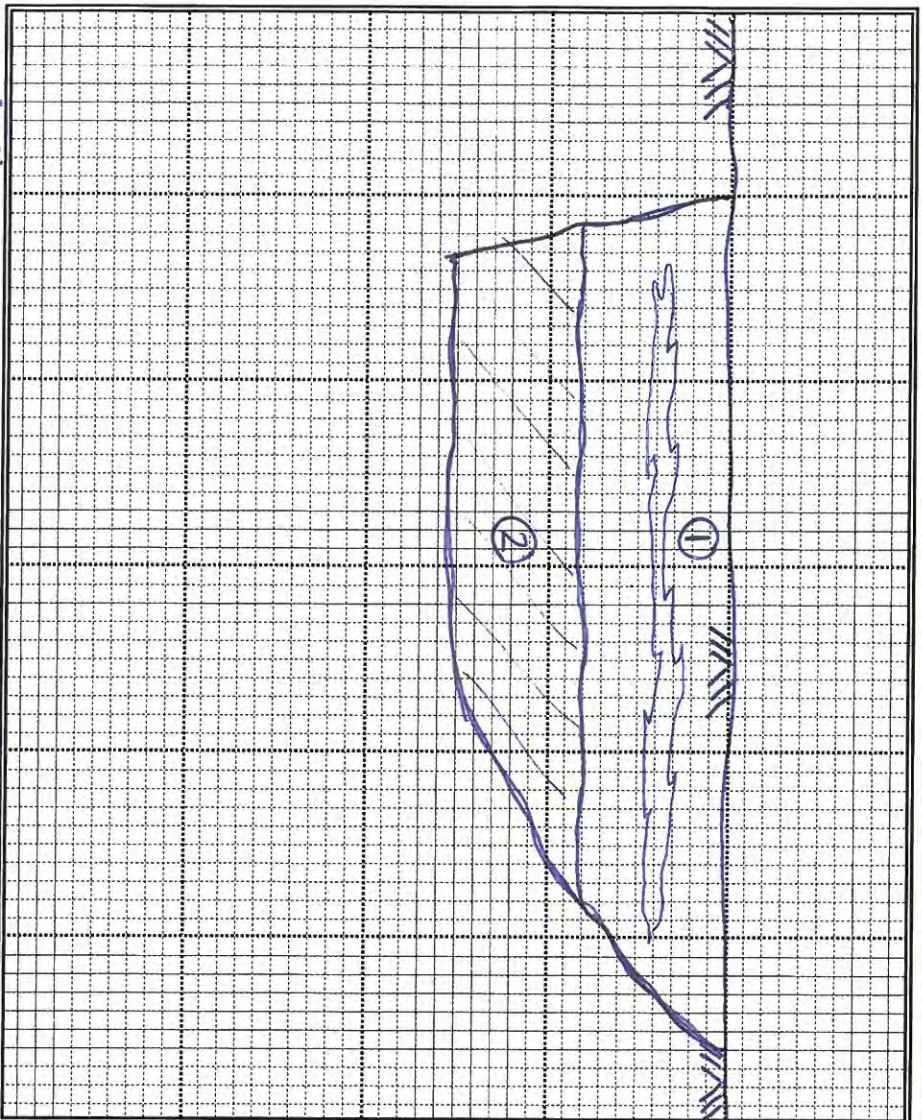
TP-10



**McClroskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/14/13      Elevation:  
Project Name: Comm Hill      Inclination:  
Project Number:      Aspect:



Scale: 1" = 2'

Orientation: N/S

**REMARKS**

**STRATUM DESCRIPTION**

- ① Sandy Clay with gravel, Dk brn (Cap-Fill)  
~18" Lenses of olive gray/yellow crushed serpentinite
- ② Bed Rock - Serpentine - olive gray/yellow

Logged By: OMV      Test Pit Number: TP-11      Figure Number:





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CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/14/13

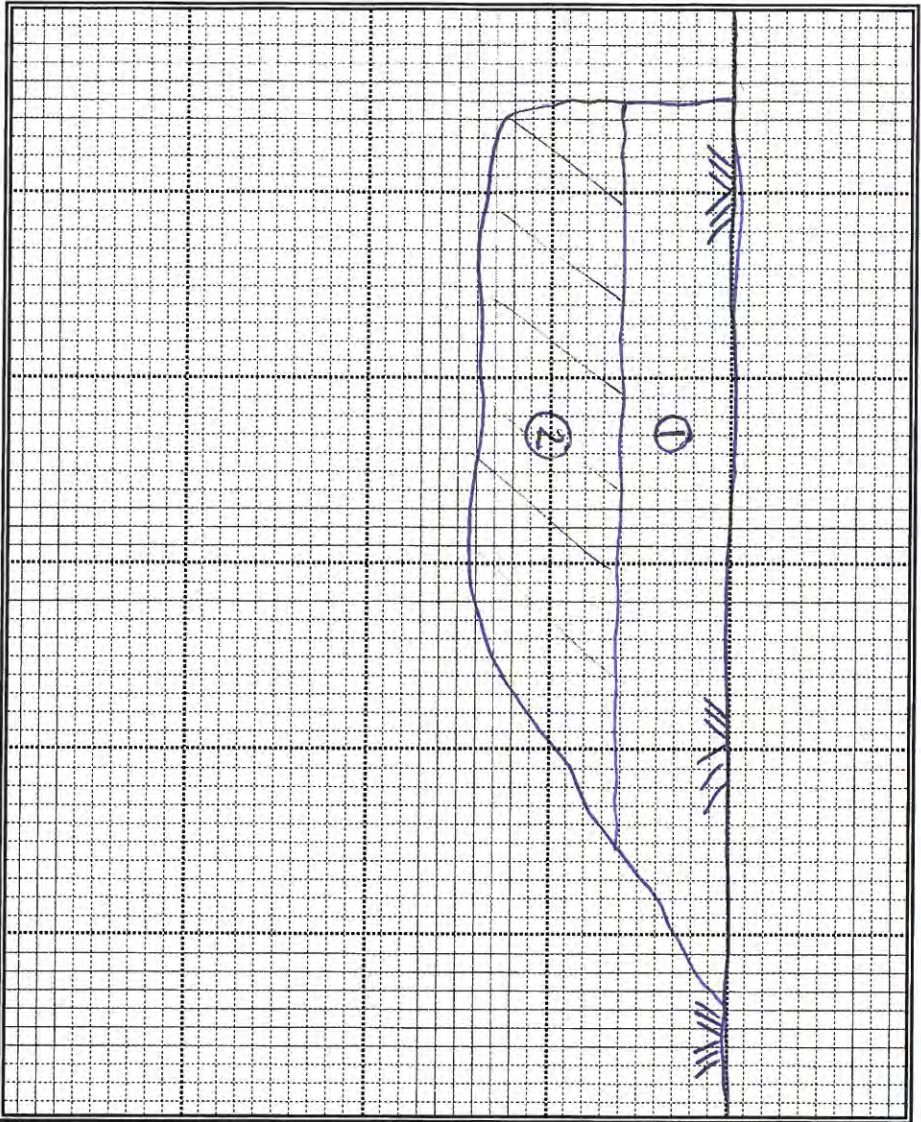
Elevation:

Project Name: *Comm Hill*

Inclination:

Project Number:

Aspect:



Scale:

Orientation:

REMARKS

## STRATUM DESCRIPTION

① Fill - Capping Soil - Silty clay with gravel, dk brn ~15"

② Bed Rock - Serpentine - olive gray/yellows

Logged By:

Test Pit Number:

Figure Number:

*DMV*

*TR-12*



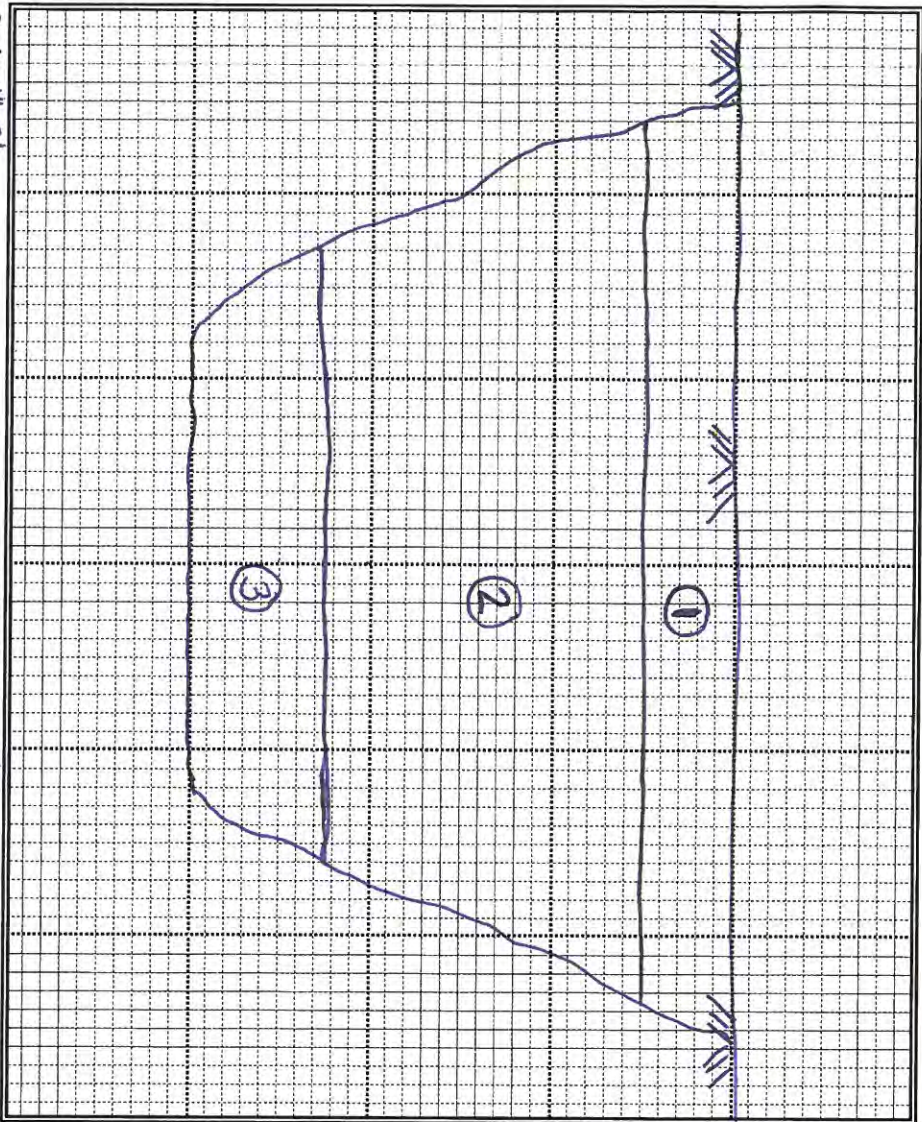
**McCluskey**  
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ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/14/11  
Elevation:  
Project Name: Down Hill Inclinaton:  
Project Number: Aspect:

## STRATUM DESCRIPTION

- ① Fill - Silty Clay w/ gravel dk brn, moist ~1'
- ② Fill - Silty sand w/ gravel, yellow brn with small ~1-4 1/2' pieces of serpentine
- ③ Bad Rock - Serpentine - olive gray / yellow



Scale: 1" = 2'

Orientation: ~N/S

## REMARKS

Logged By: Test Pit Number: Figure Number:

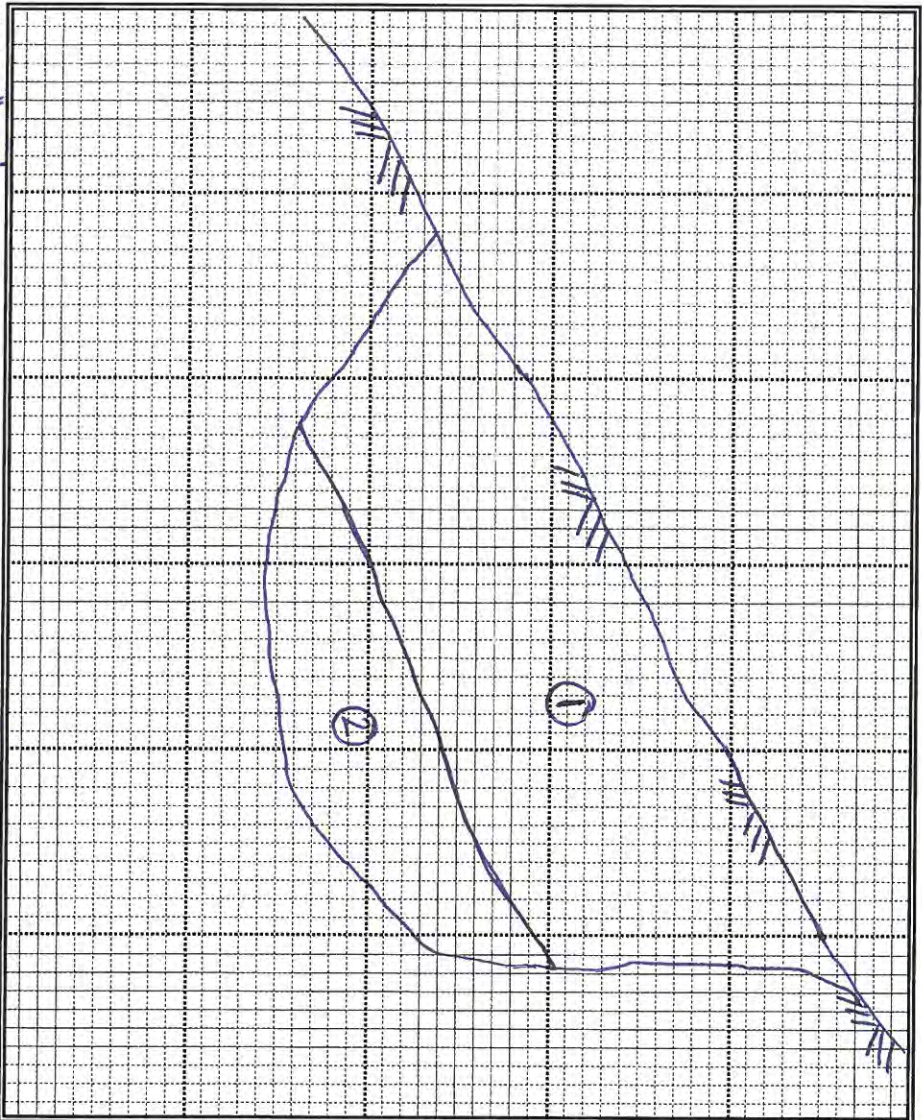
CMV TP-13



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# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
 Project Name: Gunn Hill      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 5'  
 Orientation: EMD

REMARKS

1-1/2' Sampled @ 9:08

### STRATUM DESCRIPTION

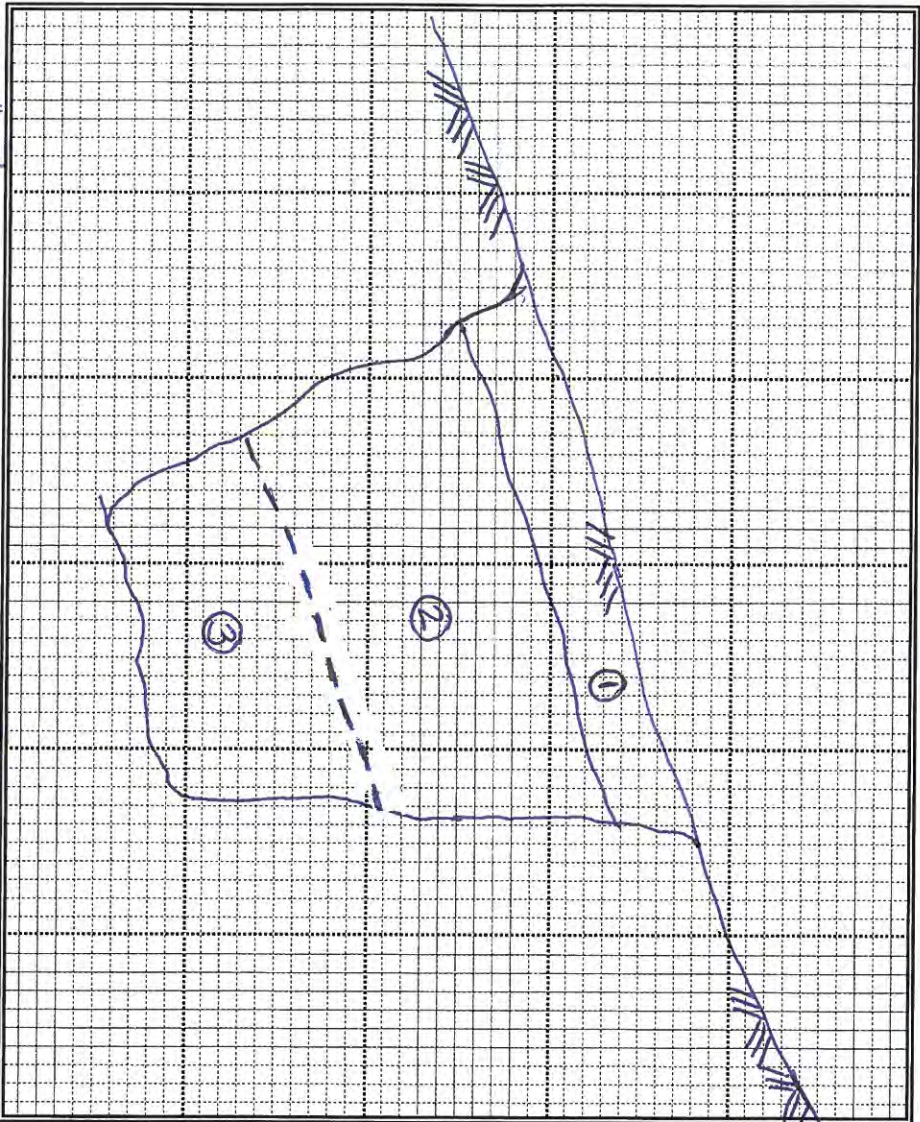
- ① Fill - Sandy Clay w/ gravel, dk Brn/Brn, Trace to coarse gravel  
Trace pieces of Brick + AC, small pieces (<1-3")
- ② Bed Rock - Serpentine - olive gray / yellow

Logged By: <u>CMV</u>	Test Pit Number: <u>TP-14</u>	Figure Number:
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# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
Project Name: Donna Hill      Inclination:  
Project Number:      Aspect:



Scale: 1" = 5'

Orientation: E/W

### REMARKS

1-1 1/2' Sampled @ 10:09  
2 1/2-3' Sampled @ 10:13

### STRATUM DESCRIPTION

- ① Fill - Silty Sand w/gravel, Rd Brn, moist, fine to coarse gravel  
Pieces of Serpentine
- ② Fill - Silty clay w/gravel, Rd Brn, fine to coarse gravel
- ③ Fill - Sandy Clay w/gravel, Brn/Rd Brn, fine to coarse gravel  
Bottom ~14'

Logged By:      Test Pit Number:      Figure Number:

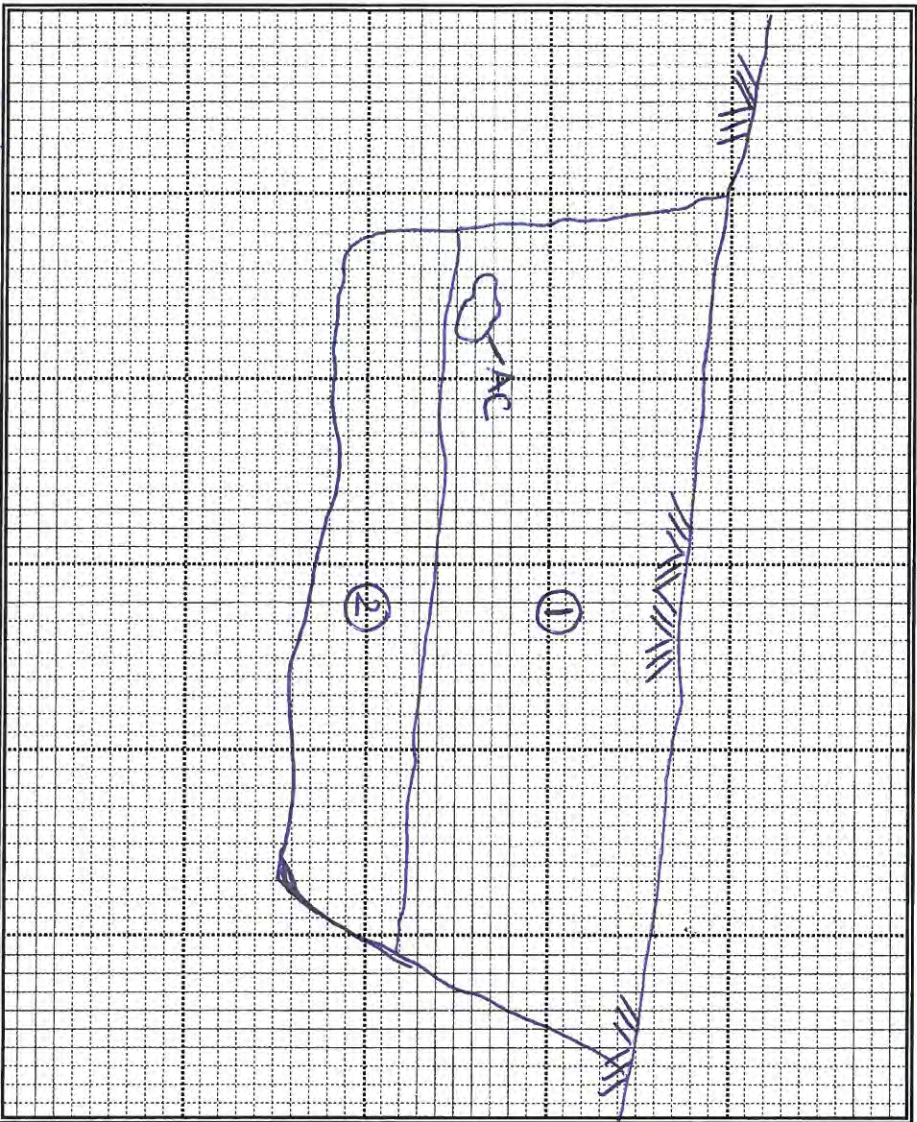
GMV      TP-15



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
 Project Name: *Barney Hill*      Inclination:  
 Project Number:      Aspect:



Scale: 1"=2'

Orientation: E-W

## REMARKS

0.5-1' Sampled @ 11:07  
 NOK Sampled @ 11:09

## STRATUM DESCRIPTION

- ① Fill - Silty clay w/ gravel, Brn/Rd Brn, Fine to coarse gravel, large piece of AC ~ 2 1/2-3' (2 8" φ), a few pieces of brick observed
- ② Bed Rock - Serpentine - olive gray / yellow.

Logged By:

Test Pit Number:

Figure Number:

*OMV*

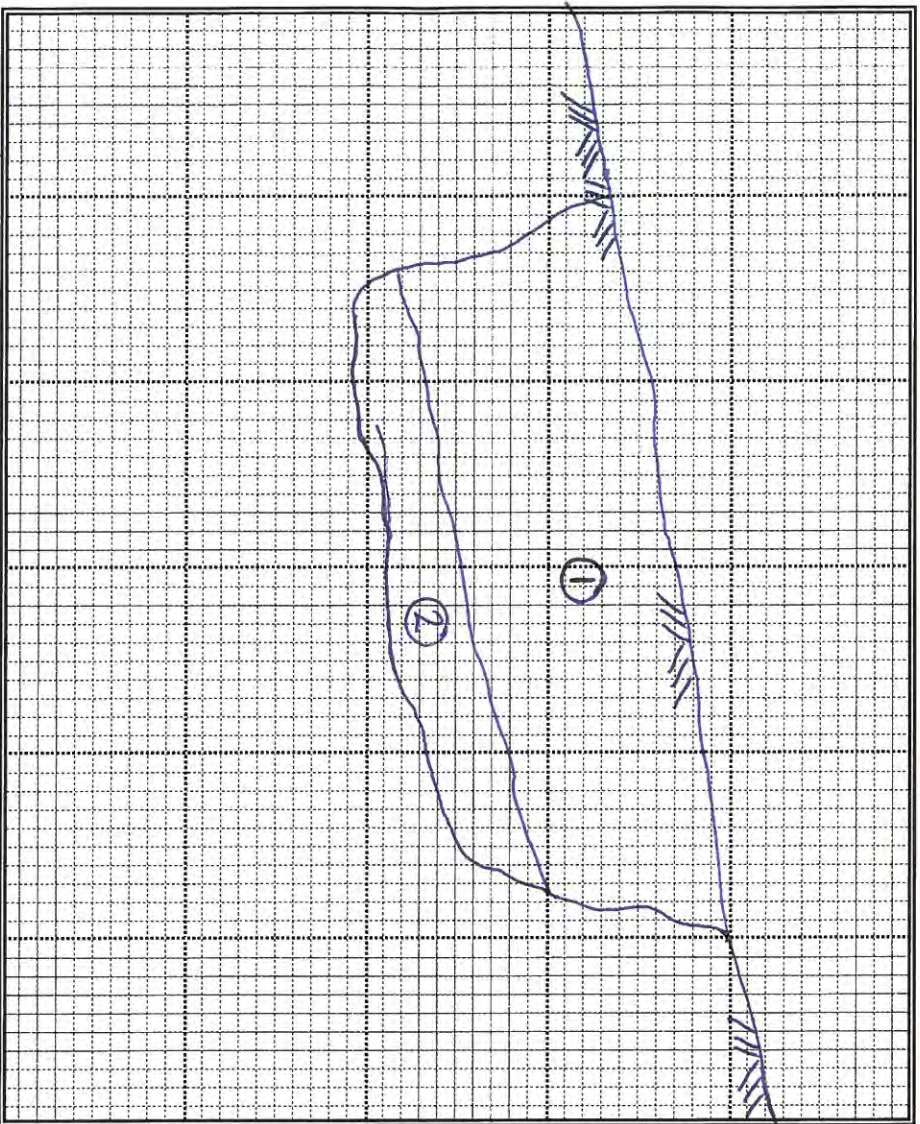
*TP-16*



**McClroskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
Project Name: Covina Hill      Inclination:  
Project Number:      Aspect:



Scale: 1" = 2'

Orientation: EW

**REMARKS**

0.5-1' Sampled @ 13:37  
NOK Sampled @ 13:46

**STRATUM DESCRIPTION**

- ① Fill - Silty clay w/ gravel, dk brn, fine to coarse 0-2' gravel, small pieces of brick
- ② Bed Rock. Serpentine olivegray/yellow

Logged By:

Test Pit Number:

Figure Number:

CMV

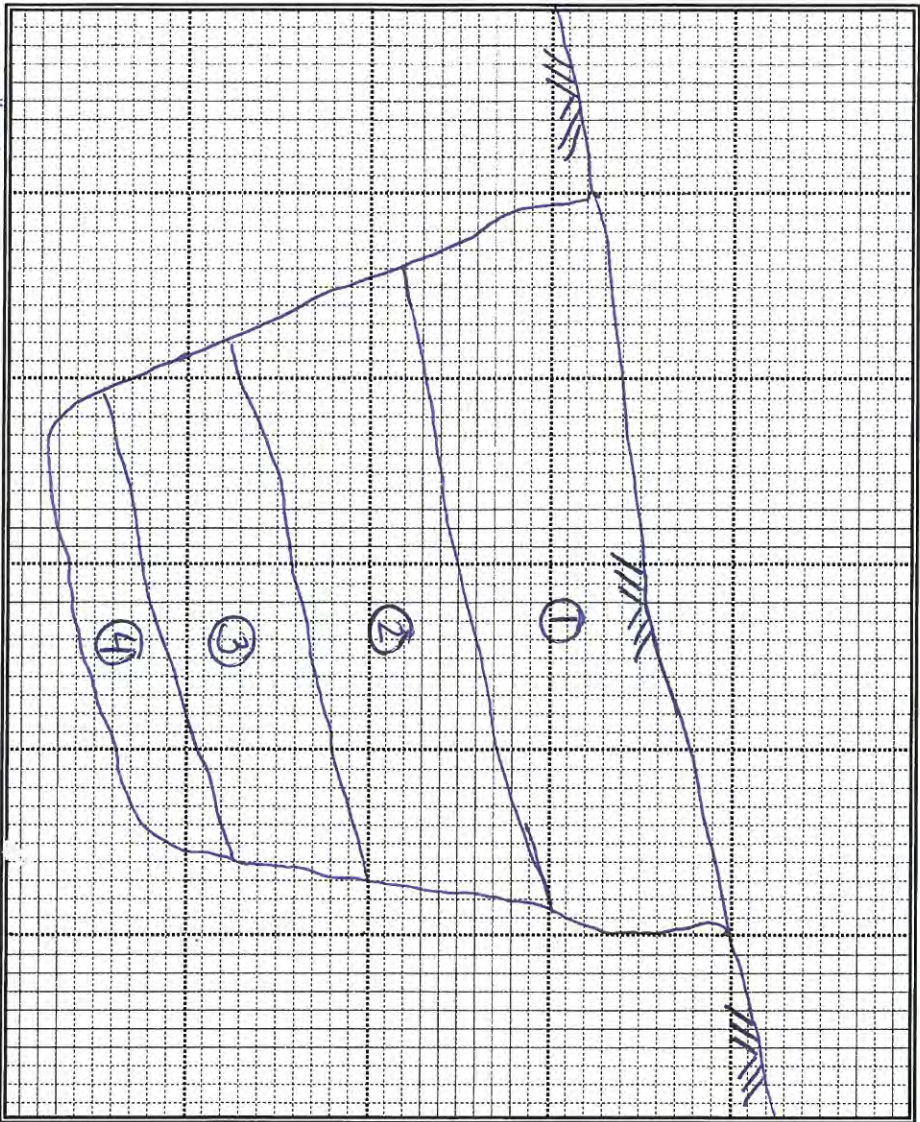
TP-17



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
 Project Name: Gum Hill      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 2'

Orientation: E40

**REMARKS**

1-1 1/2' Sampled 14/25  
 NOK Sampled 14/29  
 0-2'

**STRATUM DESCRIPTION**

- ① Fill - Silty Clay w/gravel Dk brn, trace fine to coarse 0-2' gravel
- ② Silty sand, light Brn/Olive Brn, serpentine observed ~24'
- ③ Silty Clay, Dk brn, trace fine to coarse gravel ~4-5 1/2'
- ④ Bed Rock - Serpentine - olivegray/yellows

Logged By:      Test Pit Number:      Figure Number:

CMV

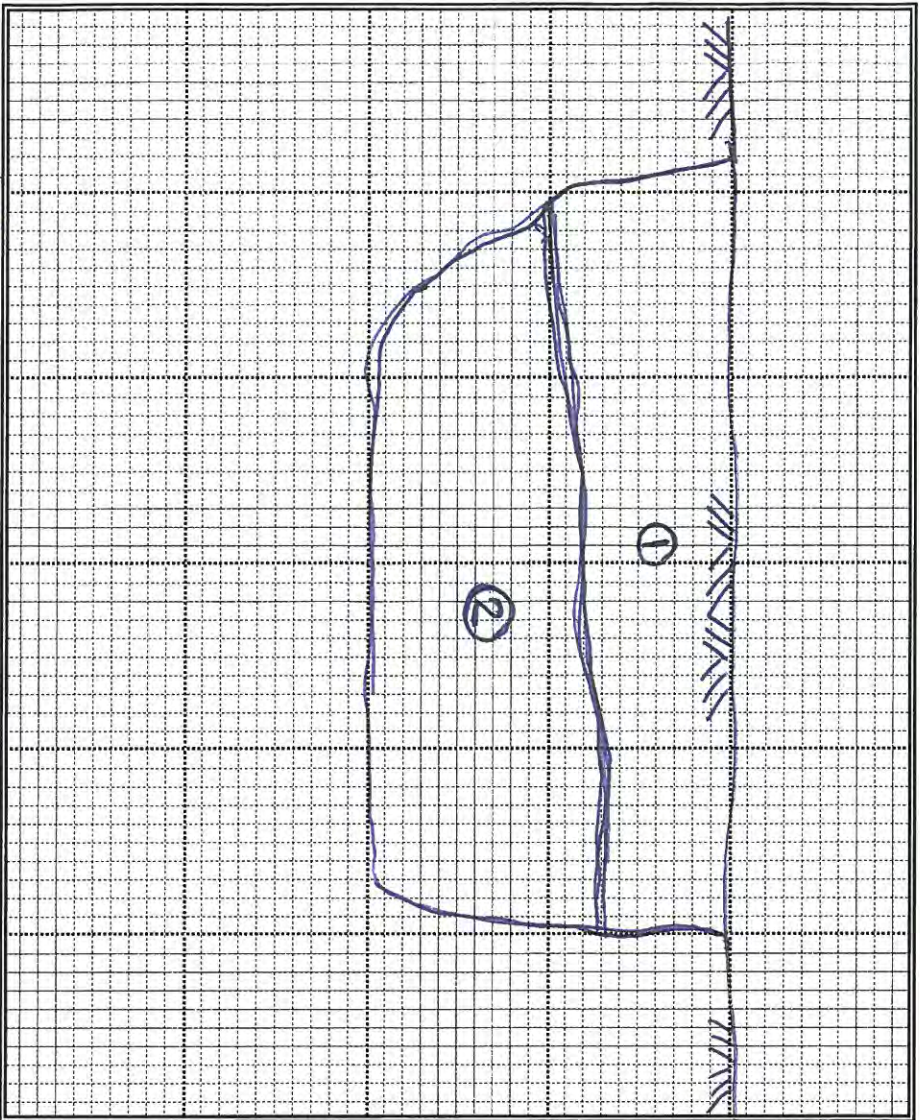
TP-18



**McClloskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/15/13 Elevation:  
 Project Name: Green Hill Inclination:  
 Project Number: Aspect:



Scale: 1" = 1'

Orientation: EW

**REMARKS**

0.5-1 Sample @ 15:37

**STRATUM DESCRIPTION**

① Fill - Silty Clay w/ gravel, DK Brn, fine to coarse gravel  
8" - 1' of core

② Bed Rock - Serpentine  
Olive brn w/ ellips

Logged By: <u>CMV</u>	Test Pit Number: <u>TP-19</u>	Figure Number:
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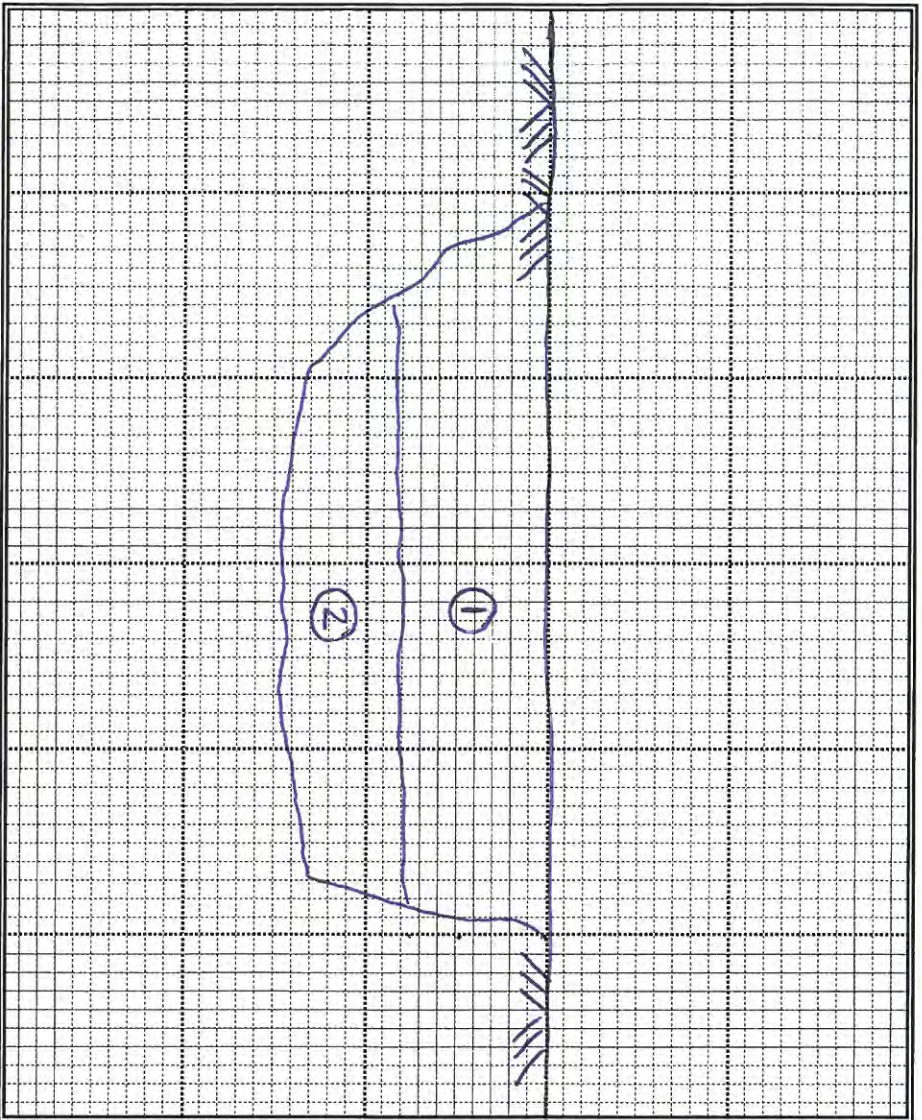




**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
 Project Name: Gwyn Hill      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 2'  
 Orientation: N/S

**REMARKS**

0.5-1' Sampled 16:09

**STRATUM DESCRIPTION**

- ① Fill - Silty clay, Brn/olive Brn, fine to coarse gravel  
0-1 1/2' Small pieces of brick observed
- ② Bed Rock - Serpentine - Olive gray / yellow

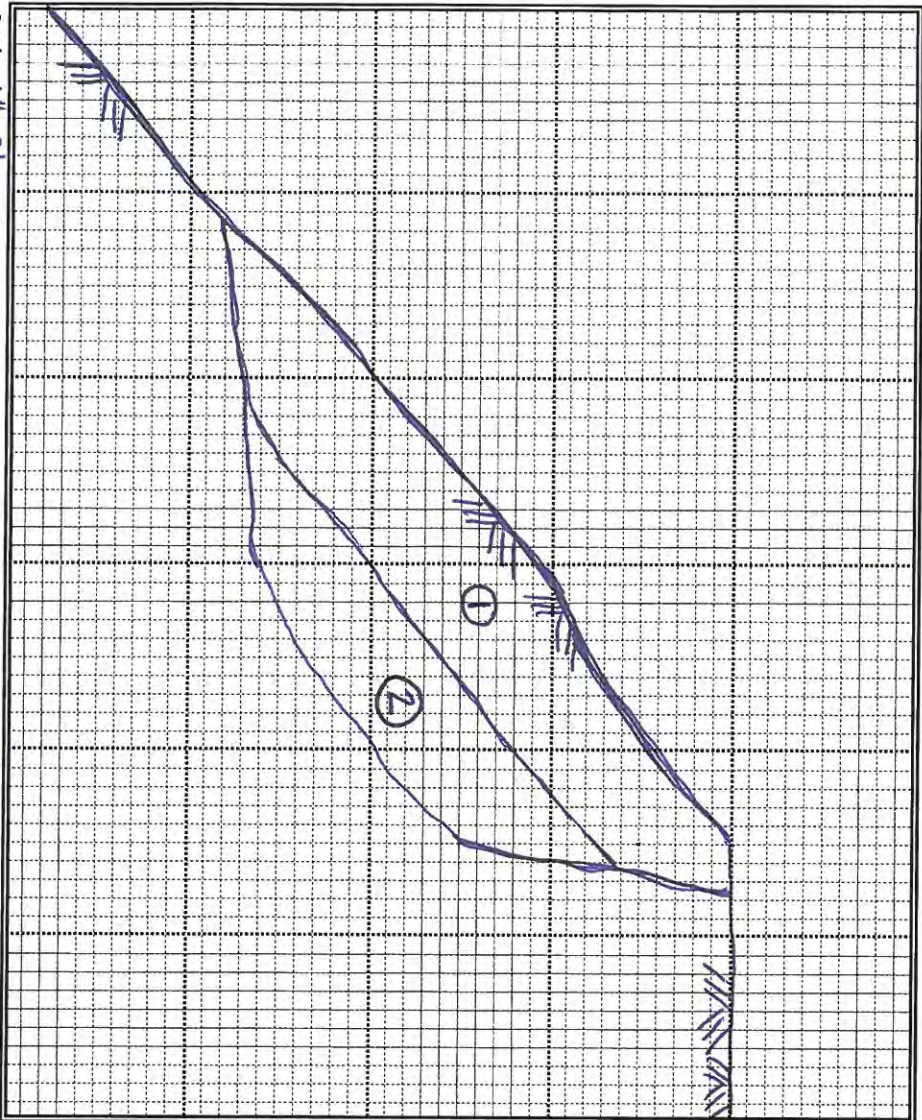
Logged By:	Test Pit Number:	Figure Number:
CMV	TP-20	



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/15/13      Elevation:  
 Project Name: *Donn Hill*      Inclination:  
 Project Number:      Aspect:



Scale: 1"=2'  
 Orientation: E/W

REMARKS

1-1/2' Sampled @ 16:39  
 NOK(0-1/2) Sampled @ 16:35

**STRATUM DESCRIPTION**

- ① Fill - Silty clay, Brn/Rd Brn, fine to coarse gravel 0-1 1/2'
- ② Bed Rock - Serpentine. Olive brn/Olive gray

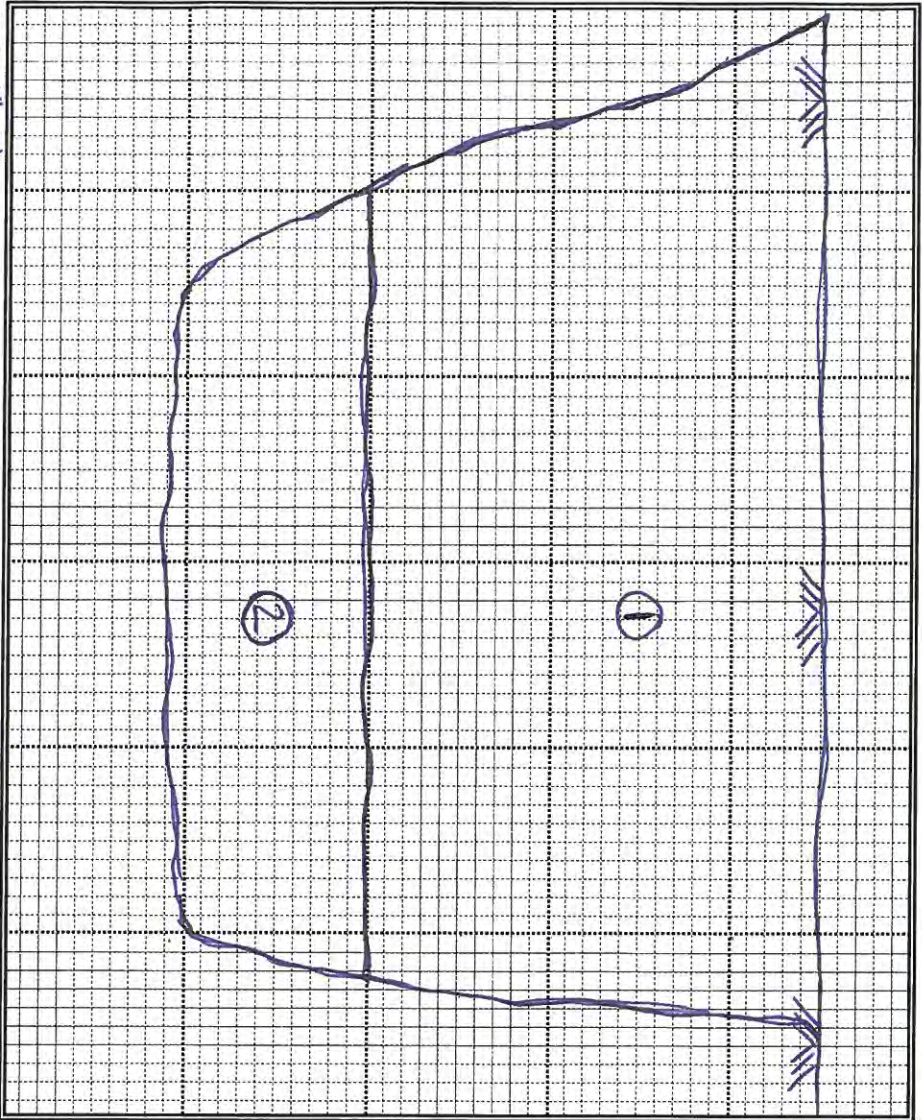
Logged By:	Test Pit Number:	Figure Number:
<i>CMV</i>	<i>TP-21</i>	



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13      Elevation:  
 Project Name: Corum Hill      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 2'  
 Orientation: E/W

REMARKS

1 1/2 - 2 Sampled 9:27  
 NDA Sampled 9:34

### STRATUM DESCRIPTION

- ① Fill - Sandy clay, Brn to Light Brn, fine to coarse gravel 0-5' small pieces of asphalt + concrete (~8")
- ② Native - Silty clay - Dk brn / Dk Gray Brn 5-7'

Logged By:      Test Pit Number:      Figure Number:

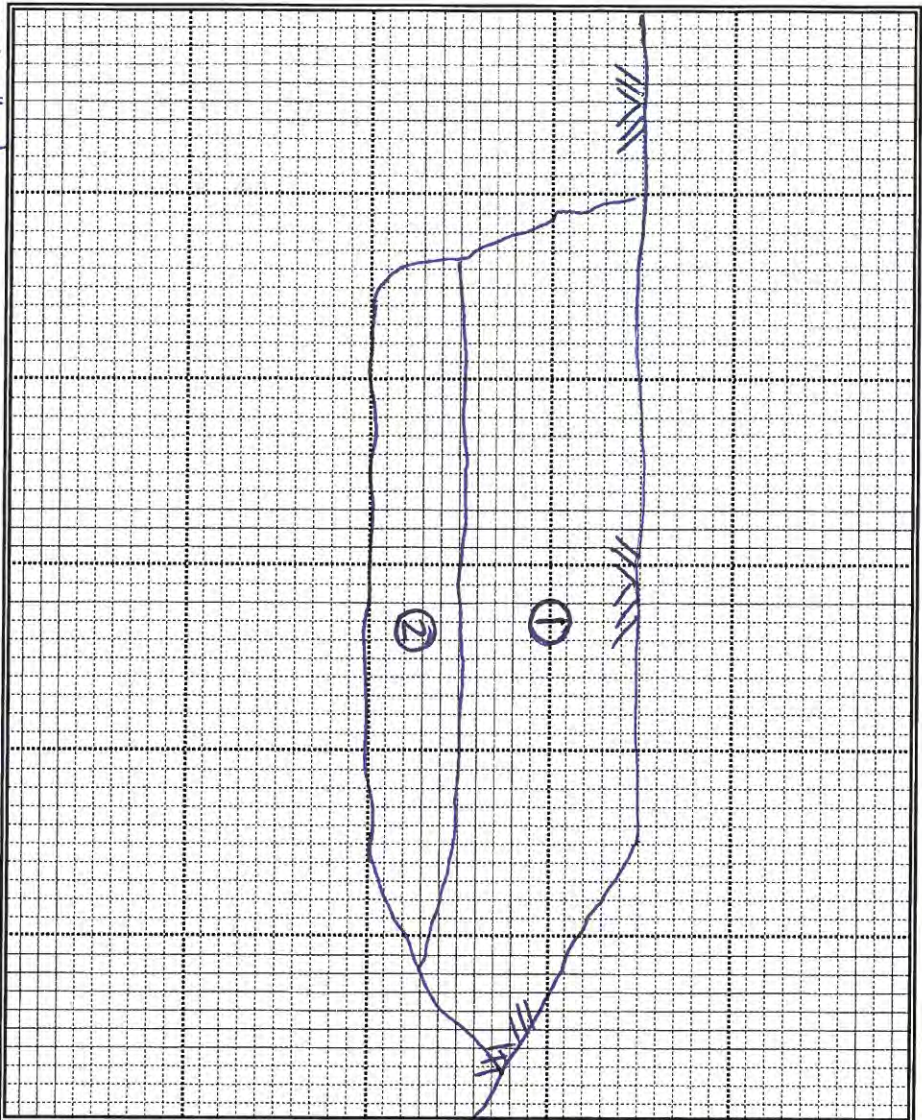
CMV      TP-22



**McCloskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13      Elevation:  
 Project Name: Copper Hill      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 2'      Orientation: N-S

REMARKS

0.5-1' Sampled 10:14

### STRATUM DESCRIPTION

- ① Fill - Silty Clay, DK Brn, Moist trace fine to coarse Serpentine gravels observed. gravel
- ② Bed Rock - Serpentine - Olive Brn/Yellow

Logged By:      Test Pit Number:      Figure Number:

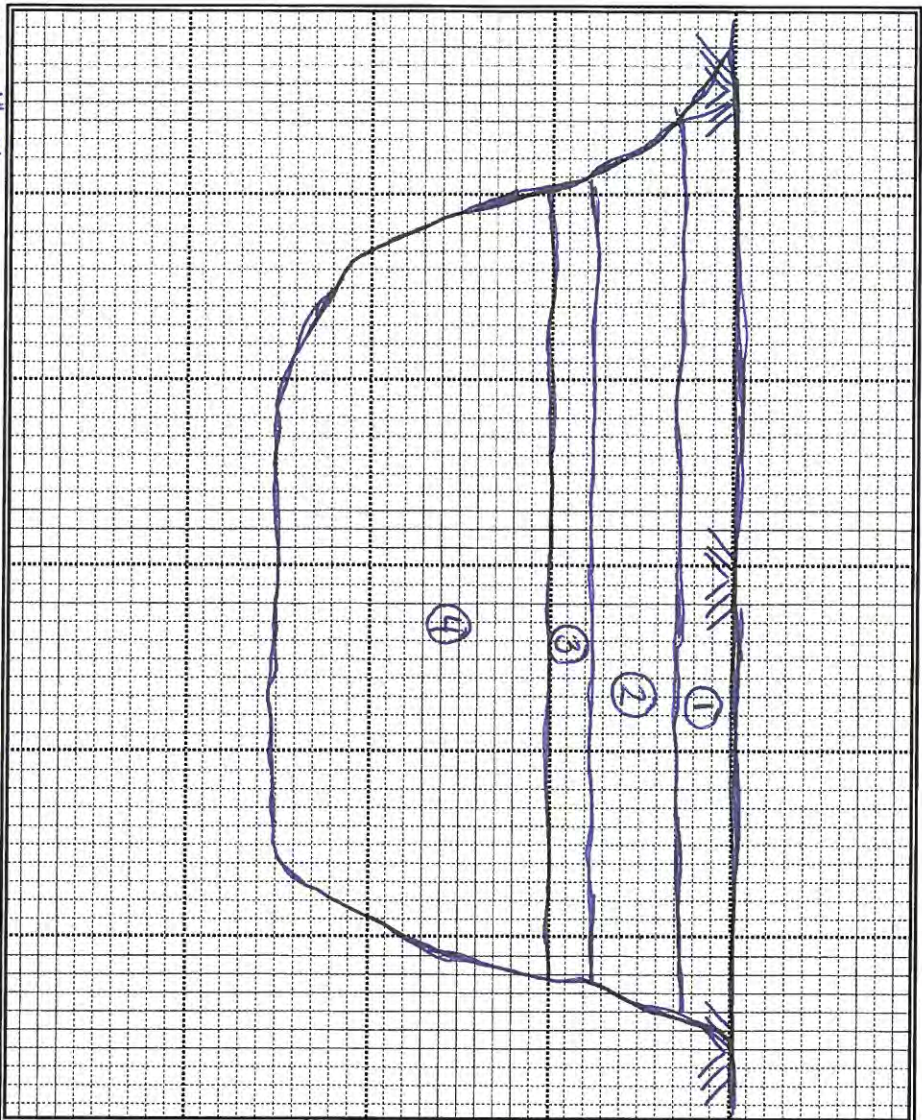
OMV      TP-23



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13  
Elevation:  
Project Name: Corn Hill  
Inclination:  
Project Number:      Aspect:



Scale: 1" = 2'

Orientation: E-W

REMARKS

0.5-1' Sampled @ 11:30  
1.5-2' Sampled @ 11:43  
NOA Sampled @ 11:35

### STRATUM DESCRIPTION

- ① Fill - Silty Clay, Brn, fine to coarse gravel  
0~6"
- ② Fill- Silty Clay, Rd Brn/Brn, fine to coarse gravel  
6-18"
- ③ Fill- Silty Clay, Dk brn/Dk gray mottled Light gray, fine to  
18~24' coarse gravel
- ④ Bed Rock - Serpentine - Olive brn/Yellow

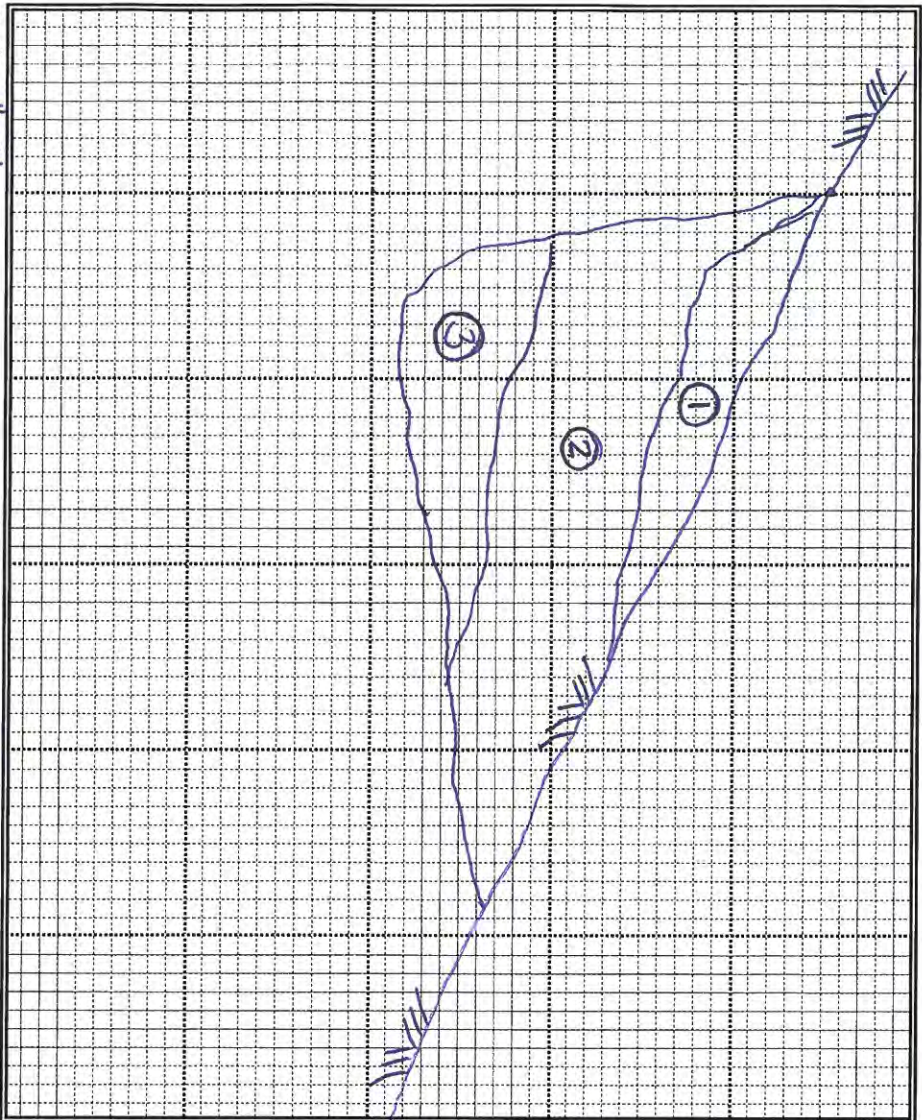
Logged By:	Test Pit Number:	Figure Number:
CMV	TP-24	



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13      Elevation:  
 Project Name: *Anna Hill*      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 2'

Orientation: N-S

## REMARKS

### STRATUM DESCRIPTION

- ① Fill - Silty Clay, dk brn, fine to coarse gravel
- ② Native - Silty Clay, Red Brn, fine to coarse gravel
- ③ Bed Rock - Serpentine - Olive Brn/Yellow

Logged By:      Test Pit Number:      Figure Number:

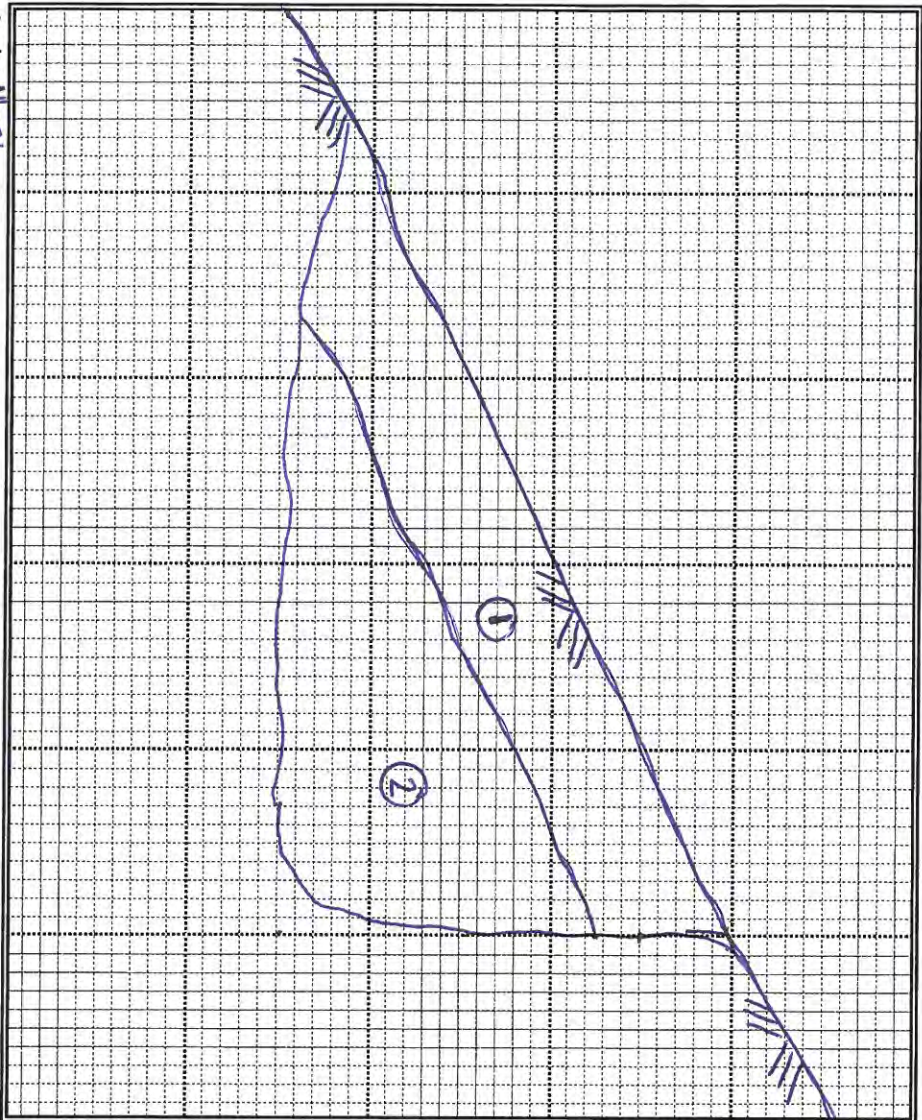
*CMV*      *TP-25*



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13      Elevation:  
Project Name: Berry Hill      Inclination:  
Project Number:      Aspect:



Scale: 1" = 2'

Orientation: N-S

**REMARKS**

0.5-1' Sampled @ 13:56

**STRATUM DESCRIPTION**

- ① Fill - Silty Clay, w/ sands + gravels, Brn/Olive gray
- ② Bed Rock - Serpentine Olive Brn/Yellow - weathered.

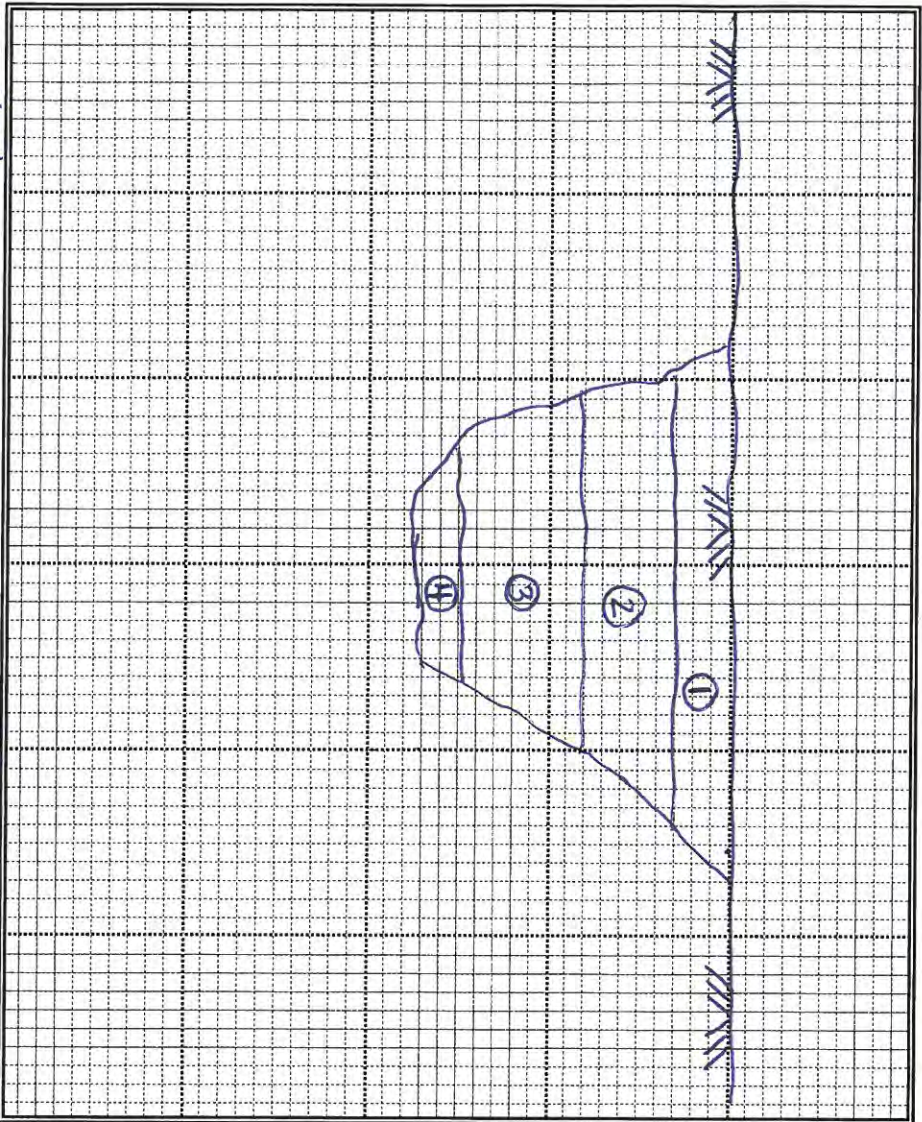
Logged By:	Test Pit Number:	Figure Number:
DMV	TP-26	



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13      Elevation:  
Project Name: Cow Hill      Inclination:  
Project Number:      Aspect:



Scale: 1"=5'

Orientation: N-S

### REMARKS

0.5-1' Sampled @ 14:20  
NDK Sampled @ 14:33

### STRATUM DESCRIPTION

- ① Fill - Silty Clay w/ sand + gravels, Mottled Brn/Yellow Brn
- ② Fill Silty Sand w/ gravel, (Crushed serpentinite olive brn) w/ lenses of DK brn Silty clay
- ③ Native - Silty clay, Brn/DK Brn, trace fine gravel
- ④ Bed Rock - Serpentinite - Olive brn weathered.

Logged By:

Test Pit Number:

Figure Number:

OMV

TP-27

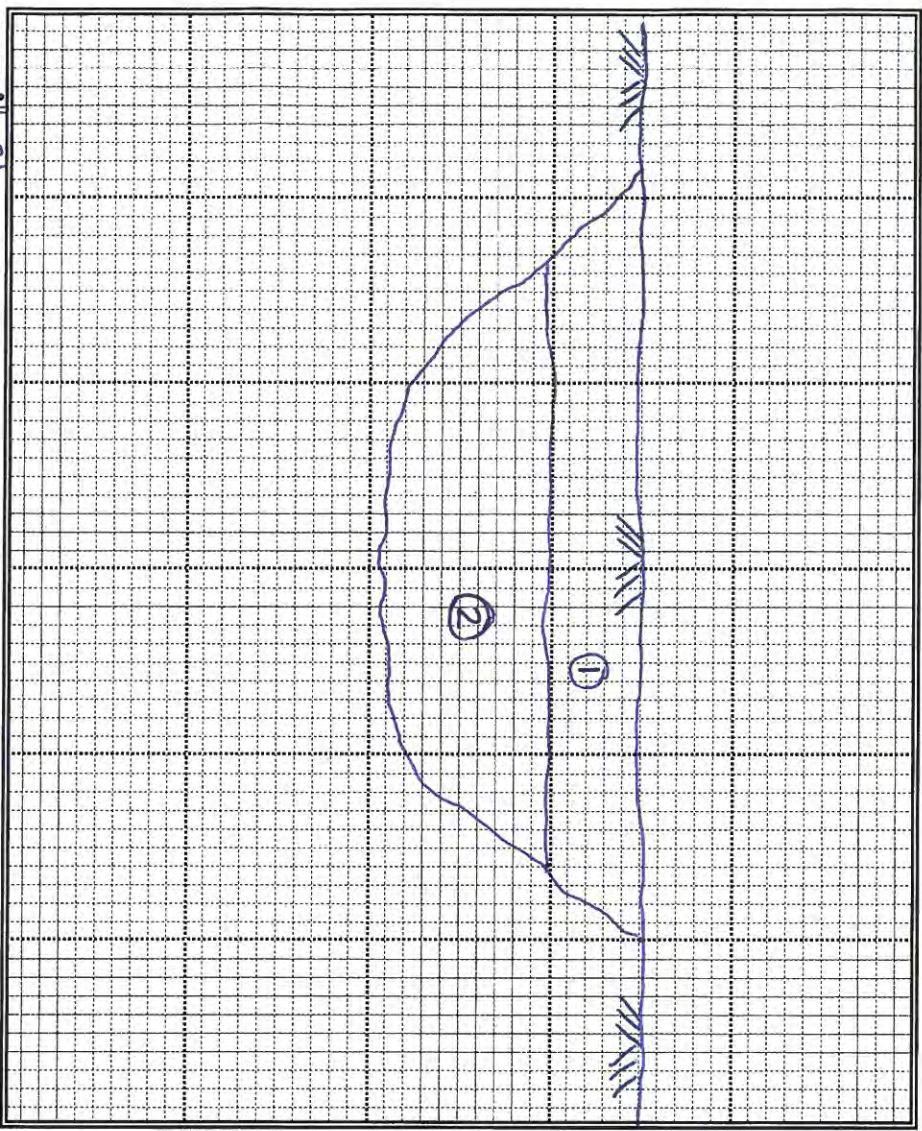




**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13      Elevation:  
 Project Name: *Gymn Hill*      Inclination:  
 Project Number:      Aspect:



Scale: 1" = 2'  
 Orientation: E-S

**REMARKS**

6-0.5 Sampled @ 15:17  
 NOK Sampled @ 15:20

**STRATUM DESCRIPTION**

- ① Fill - Silty Clay w/ sand + gravel, Rd brn, fine to coarse 0-1' gravel
- ② Bed Rock - Serpentine Olive/Yellows

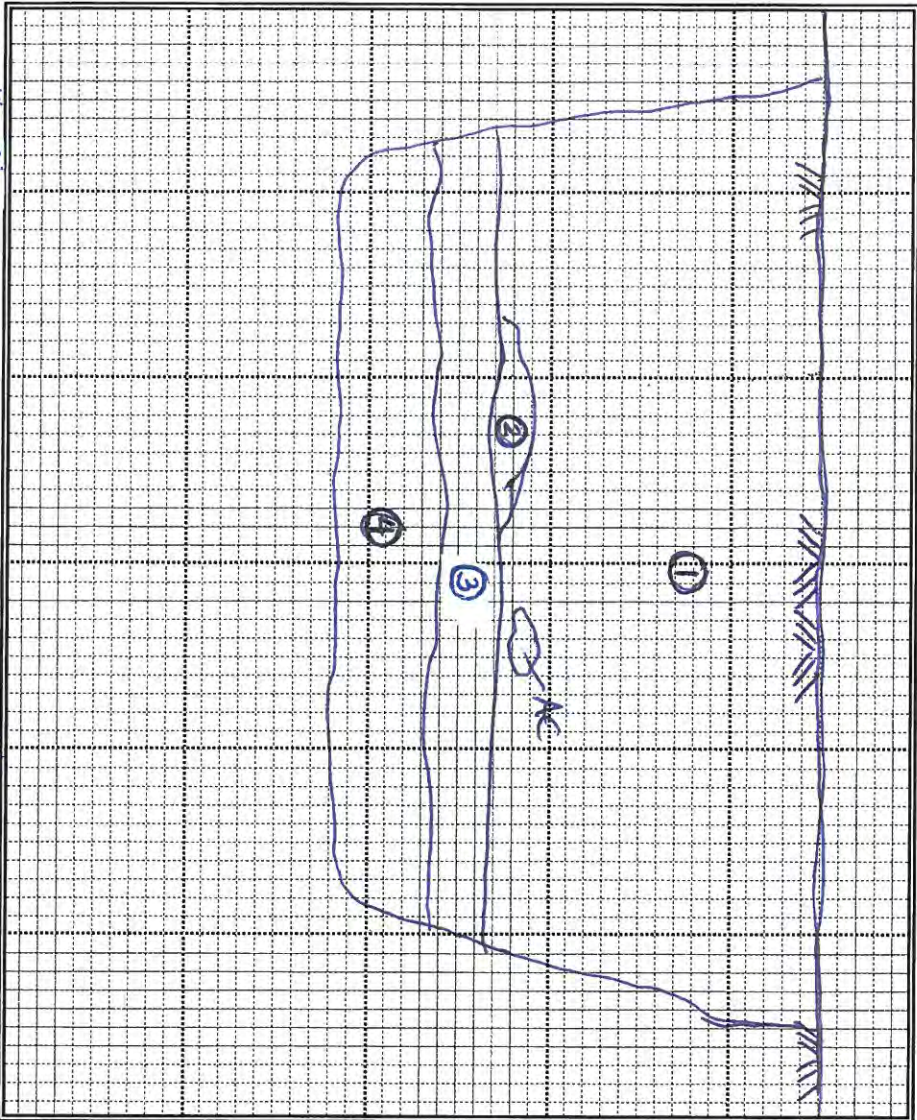
Logged By:	Test Pit Number:	Figure Number:
<i>CMV</i>	<i>TP-28</i>	



**McCluskey**  
CONSULTANTS  
ENVIRONMENTAL & GEOLOGIC ASSESSMENTS

# EXPLORATORY PIT LOG

Date: 1/16/13  
Elevation:  
Project Name: Parma Hill  
Inclination:  
Project Number: \_\_\_\_\_  
Aspect:



Scale: 1" = 2'

Orientation: N/S

**REMARKS**

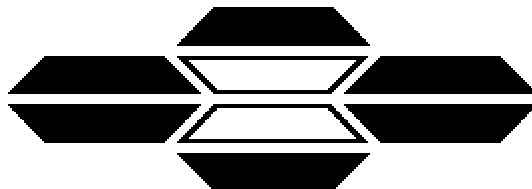
TP209 @ 2-21/2 Sampled 15:44 NDA 0-3' 15:50

**STRATUM DESCRIPTION**

- ① Fill - Silty clays w/ sand & gravel  
Dk brn mottled olive brn fine to coarse  
to red brn piece of AC observed ~3-3 1/2'
- ② Fill - Sandy Gravel - gray saturated
- ③ Sandy clay w/ gravel yellow brn  
wet
- ④ Bad Rock - serpentinite olive/yellow

Logged By: CMV Test Pit Number: TP209 Figure Number:

**Appendix B**  
**Laboratory Reports**



**ASBESTOS TEM LABORATORIES, INC.**

**EPA Quantitative Bulk Test Method  
Transmission Electron Microscopy  
Analytical Report**

**Laboratory Report # 315101**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429  
[www.asbestostemplabs.com](http://www.asbestostemplabs.com)

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ASBESTOS TEM LABORATORIES, INC

---

Jan/28/2013

Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Rd West  
Danville, CA 94526

RE: LABORATORY REPORT #315101

Transmission electron microscopy analytical results for 1 bulk material sample(s).  
Job Site: Comm Hill  
Job No.:

Please find below the results for the TEM analysis of one or more bulk material samples. The analytical procedures were performed according to the EPA Test Method For the Determination of Asbestos in Bulk Building Materials - TEM method (EPA 600/R-93/116) modified for quantitative bulk soil sample analysis. Prior to analysis, each sample was logged-in and all pertinent data was recorded. Each sample was checked for damage and disruption of any chain-of-custody seals. A unique laboratory number was assigned to each sample. A hard copy Log-In sheet was generated. This, and all other relevant paper work was kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation followed a standard CARB 435 prep method. The entire sample was dried at 135-150 C and then crushed to ~3/8" gravel size. If the submitted sample was >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, was then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. A representative ~100 mg aliquot of material was weighed out, and then placed into solution in a 500 ml beaker filled with distilled water. A known volume of the liquid suspension was filtered onto a 0.2 micron pore size Millipore mixed cellulose ester filter. The filter was then dried in HEPA filtered, Class 100 air on a clean bench. The filter was placed onto a glass microscope slide, sectioned, and collapsed in acetone. The collapsed filter was plasma-etched to remove 10% of the filter surface and then carbon coated. The carbon coated filter was sectioned and the sections placed onto 200-mesh copper TEM sample grids in dimethyl sulfoxide and acetone wick washers. After sufficient time to dissolve the filter material, the TEM sample grids were removed from the baths and placed into labeled sample containers.

TEM analysis was performed on a Philips CM-12 or JEOL 1200 transmission electron microscope operating at 80 or 100 kV. The sample was placed into the microscope where it was first scanned at low magnification to confirm that the distribution of material was reasonably homogeneous. High magnification analysis was performed using a two tier approach: 1) A relatively large area of several TEM grid openings for large asbestos fibers or fiber bundles, and 2) a relatively small area of a number of fields of view for individual asbestos fibers (fibrous particles exhibiting an aspect ratio greater than or equal to 3 to 1, and a length greater than or equal to .5 um). Detected asbestiform structures were subjected to detailed morphological and/or selected area diffraction analysis. If necessary, energy dispersive X-ray analysis was also performed. The length and width of each asbestos fiber was measured. From this data, a total volume and mass of asbestos observed in the scanned area is calculated, and extrapolated to a total weight percent asbestos for each sample.

A handwritten signature in black ink, appearing to read "R. Mc. Burt".

Laboratory Manager

--- These results relate only to the samples tested and must not be reproduced, except in full, with the approval of the laboratory. This report must not be used to claim product endorsement by NVLAP or any other agency of the U.S. Government. ---

# TRANSMISSION ELECTRON MICROSCOPY ANALYTICAL REPORT

Contact: Tom McCloskey	<b>REPORT NO. 315101</b>
Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Date: <u>Jan-28-13</u> Date Received: <u>Jan-22-13</u>
Job Site / No. Comm Hill	Total Samples Analyzed: 1

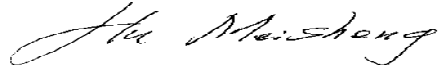
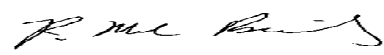
SAMPLE DESCRIPTION	
Client Sample # <u>TP-19</u>	<u>0-1'</u>
Laboratory Sample # <u>1340-00021-001</u>	

SAMPLE PREPARATION PARAMETERS			
Weight of Material Suspended (mg):	<u>59.9</u>	Filter Type & Pore Size	<u>MCE0.22um</u>
Volume of Suspension Water (ml):	<u>500</u>	Effective Filter Area (sq.mm)	<u>346</u>
Volume of Suspension Filtered (ml):	<u>0.5</u>		

ASBESTOS DETECTED IN SCAN AREA				CALCULATED ASBESTOS CONCENTRATION (WEIGHT %)		
<b>CHRYSOTILE</b>		<b>AMPHIBOLE</b>		<b>CHRYSOTILE</b>	<b>AMPHIBOLE</b>	<b>TOTAL</b>
<b>FIBERS</b>	<b>BUNDLES</b>	<b>FIBERS</b>	<b>BUNDLES</b>			
<b>93</b>	<b>82</b>	<b>1</b>	<b>NSD</b>	<b>0.27</b>	<b>0.026</b>	<b>0.30</b>
COMMENTS						
Chrysotile and Actinolite Asbestos Detected. 0.12% for chrysotile <5um and 0.15% for chrysotile >5um. 0.026% for Actinolite <5um.				Filter Loading: Moderate SAED Photo ID Nos.		

TEM / ANALYTICAL PARAMETERS					
Grid Op. # Scanned For Large Fibers & Bundles	<u>10</u>	Grid Area (sq.mm)	<u>0.0092</u>	Bundle Scan Area (sq.mm)	<u>0.092</u>
Grid Op. # Scanned For Small Fibers & Bundles	<u>1</u>	Grid Area (sq.mm)	<u>0.0092</u>	Fiber Scan Area (sq.mm)	<u>0.0092</u>
		Magnification:	<u>15,000X</u>		

NOTATION KEY	
Chrys. - Chrysotile Asbestos	1 um = 1 micron = 0.001 mm
Amph. - Amphibole Asbestos	1 mm = 1 millimeter
NSD - No Structures Detected	1 sq.mm = 1 square millimeter
Non-Asb. - Non-Asbestos	1 cc = 1 cubic centimeter

  
 Analyst Signature  
  
 Lab QC Reviewer Signature





**ASBESTOS TEM LABORATORIES, INC.**

**CARB Method 435  
Polarized Light Microscopy  
Analytical Report**

**Laboratory Job # 1340-00025**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Feb/05/2013

Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Rd West  
Danville, CA 94526

RE: LABORATORY JOB # 1340-00025  
Polarized light microscopy analytical results for 10 bulk sample(s).  
Job Site:  
Job No.: Comm Hill

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Tom McCloskey	Samples Submitted: 10	Report No. <b>315106</b>
Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Samples Analyzed: 10	Date Submitted: Jan-22-13
	Job Site / No. Comm Hill	Date Reported: Feb-05-13

SAMPLE ID	ASBESTOS		LOCATION / DESCRIPTION
	POINTS COUNTED	%	
TP-10 Lab ID # 1340-00025-001	1000 - Total Points	<0.10%	Chrysotile 2'-3 1/2' Asbestos detected in non counted portion of sample.
TP-11 Lab ID # 1340-00025-002	3 1000 - Total Points	0.30%	Chrysotile 0-1'
TP-13 Lab ID # 1340-00025-003	1000 - Total Points	<0.10%	None Detected 0-1' No Point Count Performed - ARB Exception I
TP-13 Lab ID # 1340-00025-004	8 1000 - Total Points	0.80%	Chrysotile 1-4 1/2'
TP-14 Lab ID # 1340-00025-005	1000 - Total Points	<0.10%	None Detected 0-1' No Point Count Performed - ARB Exception I
TP-16 Lab ID # 1340-00025-006	1000 - Total Points	<0.10%	Chrysotile 0-3' Asbestos detected in non counted portion of sample.
TP-17 Lab ID # 1340-00025-007	1 1000 - Total Points	0.10%	Chrysotile 0-2'
TP-18 Lab ID # 1340-00025-008	4 1000 - Total Points	0.40%	Chrysotile 0-2'
TP-21 Lab ID # 1340-00025-009	2 1000 - Total Points	0.20%	Chrysotile 0-1 1/2'
TP-22 Lab ID # 1340-00025-010	1000 - Total Points	<0.10%	Chrysotile 0-3' Asbestos detected in non counted portion of sample.

QC Reviewer 

Analyst 

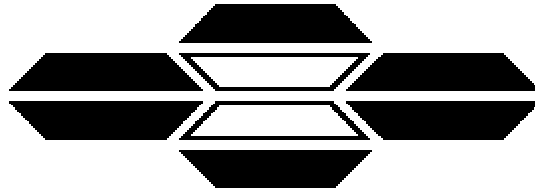
**ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY** - [www.asbestostemplabs.com](http://www.asbestostemplabs.com)  
 CALIFORNIA: 630 Bancroft Way, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429  
 NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798

Company: <i>McCloskey Consultants</i>		Contact: <i>Tom McCloskey</i>		Phone/Fax: <i>925.786.2667</i>		Email: <i>TomMcCloskey@consultant.com</i>	
Address: <i>420 Spangere Valley Rd West</i>		City: <i>Denville</i>		State: <i>CT</i>		Zip: <i>94526</i>	
Job Site: <i>China Hill</i>		Job No:		P.O. No:		Country:	
Reporting: <input type="checkbox"/> Fax <input type="checkbox"/> Phone <input checked="" type="checkbox"/> Email <input type="checkbox"/>		<input type="checkbox"/> 8 hr <input type="checkbox"/> 24 hr <input type="checkbox"/> 48 hr		<input type="checkbox"/> 3 day <input type="checkbox"/> 4 day		<input checked="" type="checkbox"/> 10 day	
Residual Due: <input type="checkbox"/> 2 hr <input type="checkbox"/> 4 hr <input type="checkbox"/> 6 hr		<input type="checkbox"/> EDD/State Form <input type="checkbox"/> Verbal <input type="checkbox"/> Pickup <input type="checkbox"/> Mail <input checked="" type="checkbox"/> Pre-Paid <input type="checkbox"/> 3 <sup>rd</sup> Party		* Contact lab to confirm TAT			
Asbestos Air: <input type="checkbox"/> PCM (NIOSH 7400A) <input type="checkbox"/> TEM AHERA <input type="checkbox"/> TEM CARB Mod. AHERA <input type="checkbox"/> TEM EPA Yamate Level		<input type="checkbox"/> PLM 400 PC <input type="checkbox"/> PLM 1000 PC		<input type="checkbox"/> TEM NIOSH 7402, Issue 2		<input type="checkbox"/> ISO 10312 <input type="checkbox"/> TEM EPA Qualitative <input type="checkbox"/> TEM EPA Quantitative	
Asbestos Bulk: <input type="checkbox"/> TEM Chatfield (Semi-Quant) <input type="checkbox"/> PLM Vermiculite Attic Insulation		<input type="checkbox"/> CARB 435 PLM 400 PC		<input checked="" type="checkbox"/> Custom Analysis: Type:			
Asbestos Soil: <input type="checkbox"/> CARB 435 Prep Only <input type="checkbox"/> CARB 435 PLM 1000 PC		<input checked="" type="checkbox"/> EPA Soil Screening Qualitative		<input type="checkbox"/> TEM EPA/CARB Quantitative			
Asbestos Dust: <input type="checkbox"/> ASTM D-5755 Fiber Count <input type="checkbox"/> ASTM D-5756 Wt. %		<input type="checkbox"/> ASTM D-6840-99 Dust Wipe		<input type="checkbox"/> Total Particulates (Grav.)			
Asbestos Water: <input type="checkbox"/> 100.2 Potable Drinking Water <input type="checkbox"/> 100.1 Non Potable Water							
Lead: <input type="checkbox"/> Paint Chips <input type="checkbox"/> Dust Wipe <input type="checkbox"/> Air Cassette <input type="checkbox"/> Soil		Lead Waste Characterization:		<input type="checkbox"/> TLIC <input type="checkbox"/> STIC <input type="checkbox"/> TCLP			
Sample Storage: <input type="checkbox"/> No Test, Hold Sample Until: <input type="checkbox"/> Post Test, Hold Sample Until: <input type="checkbox"/> Sensitivity: <input type="checkbox"/> Composite <input type="checkbox"/> Other:							
Custom Order: <input type="checkbox"/> Reanalysis by: <input type="checkbox"/> Sensitivity: <input type="checkbox"/> Composite <input type="checkbox"/> Other:							

Sample #	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (ipm)		Volume or Area Sampled	8 Hour TWA Requested	Description
						On	Off			
TP-10	Soil-bulk	1/14/13	14:21							2'-3 1/2'
TP-11	Soil		14:55							0-1'
TP-13			16:22							0-1'
TP-13			16:27							1-4 1/2'
TP-14		1/15/13	9:08							0-1'
TP-16			11:09							0-3'
TP-17			13:40							0-2'
TP-18			14:24							0-2'
TP-21			16:35							0-1 1/2'
TP-22		1/16/13	9:33							0-3'

Submitted By: <i>[Signature]</i>	Received By:
Date/Time Submitted: 01-22-13 P.01:49 IN	Date/Time Received: 01-22-13 P.01:48 IN
Submitted By: <i>[Signature]</i>	Received By: <i>[Signature]</i>
Date/Time Submitted:	Date/Time Received:

\*All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service



**ASBESTOS TEM LABORATORIES, INC.**

**CARB Method 435  
Polarized Light Microscopy  
Analytical Report**

**Laboratory Job # 1340-00024**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Jan/29/2013

Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Rd West  
Danville, CA 94526

RE: LABORATORY JOB # 1340-00024  
Polarized light microscopy analytical results for 8 bulk sample(s).  
Job Site:  
Job No.: Comm Hill

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Tom McCloskey	Samples Submitted: 8	Report No. <b>315105</b>
Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Samples Analyzed: 8	Date Submitted: Jan-22-13
	Job Site / No. Comm Hill	Date Reported: Jan-29-13

SAMPLE ID	ASBESTOS		LOCATION / DESCRIPTION
	POINTS COUNTED	% TYPE	
SP-5-1	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-001	<b>1000 - Total Points</b>		
SP-5-2	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-002	<b>1000 - Total Points</b>		
SP-5-3	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-003	<b>1000 - Total Points</b>		
SP-5-4	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-004	<b>1000 - Total Points</b>		
SP-6-1	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-005	<b>1000 - Total Points</b>		
SP-6-2	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-006	<b>1000 - Total Points</b>		
SP-6-3	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-007	<b>1000 - Total Points</b>		
SP-6-4	<b>&lt;0.10%</b>	<b>None Detected</b>	No Point Count Performed - ARB Exception I
Lab ID # 1340-00024-008	<b>1000 - Total Points</b>		
Lab ID #	- Total Points		
Lab ID #	- Total Points		

QC Reviewer 

Analyst 

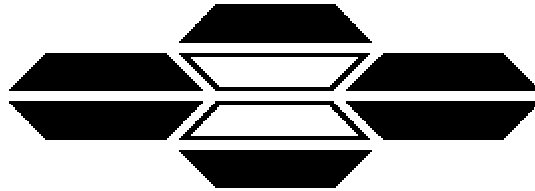
**ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY - www.asbestostemplabs.com**  
 CALIFORNIA: 630 Bancroft Way, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429  
 NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798

Company: <u>McCluskey Consultants</u>		Contact: <u>Tom McCluskey</u>		Phone/Fax: <u>925.786.2667</u>		Email: <u>Tom@mccluskeyconsultants.com</u>						
Address: <u>470 Sparrow Valley Rd West</u>		City: <u>Danville</u>		State: <u>CA</u>		Zip: <u>94526</u>						
Job Site: <u>Contra Hill</u>		Job No:		P.O. No:		Country:						
Reporting	<input type="checkbox"/> Fax	<input type="checkbox"/> Phone	<input checked="" type="checkbox"/> Email	<input type="checkbox"/> Mail	<input type="checkbox"/> FTP	<input type="checkbox"/> EDD/State Form	<input type="checkbox"/> Verbal	<input type="checkbox"/> Pickup	<input type="checkbox"/> Fax	<input checked="" type="checkbox"/> Mail	<input type="checkbox"/> Pre-Paid	<input type="checkbox"/> 3 <sup>rd</sup> Party
Results Due:	<input type="checkbox"/> 2 hr	<input type="checkbox"/> 4 hr	<input type="checkbox"/> 6 hr	<input type="checkbox"/> 8 hr	<input type="checkbox"/> 24 hr	<input type="checkbox"/> 48 hr	<input type="checkbox"/> 3 day	<input type="checkbox"/> 4 day	<input type="checkbox"/> 5 day	<input type="checkbox"/> 10 day	* Contact lab to confirm TAT	
Asbestos Air	<input type="checkbox"/> PCM (NIOSH 7400A)	<input type="checkbox"/> TEM AHERA	<input type="checkbox"/> TEM AHERA	<input type="checkbox"/> TEM CARB Mod. AHERA	<input type="checkbox"/> TEM EPA Yamate Level	<input type="checkbox"/> TEM NIOSH 7402, Issue 2	<input type="checkbox"/> ISO 10312	<input type="checkbox"/> TEM EPA Qualitative	<input type="checkbox"/> TEM EPA Quantitative			
Asbestos Bulk	<input type="checkbox"/> PLM Standard (EPA 600/R-93-1)	<input type="checkbox"/> PLM 400 PC	<input type="checkbox"/> PLM 1000 PC	<input type="checkbox"/> PLM 400 PC Grav. Red.	<input type="checkbox"/> PLM 1000 PC Grav. Red.	<input type="checkbox"/> PLM 1000 PC Grav. Red.	<input type="checkbox"/> TEM EPA Qualitative	<input type="checkbox"/> TEM EPA Quantitative				
Asbestos Soils	<input type="checkbox"/> TEM Charfield (Semi-Quant)	<input type="checkbox"/> PLM Vermiculite Attic Insulation	<input checked="" type="checkbox"/> Custom Analysis: Type:									
Asbestos Dust	<input type="checkbox"/> CARB 435 Prep Only	<input checked="" type="checkbox"/> CARB 435 PLM 1000 PC	<input type="checkbox"/> EPA Soil Screening Qualitative <input type="checkbox"/> TEM EPA/CARB Quantitative									
Asbestos Water	<input type="checkbox"/> ASTM D-5755 Fiber Count	<input type="checkbox"/> ASTM D-5756 Wt. %	<input type="checkbox"/> ASTM D-5756 Mass	<input type="checkbox"/> ASTM D-6840-98 Dust Wipe	<input type="checkbox"/> Total Particulates (Grav.)							
Lead	<input type="checkbox"/> 100.2 Potable Drinking Water	<input type="checkbox"/> 100.1 Non Potable Water										
Sample Storage	<input type="checkbox"/> Paint Chips	<input type="checkbox"/> Dust Wipe	<input type="checkbox"/> Air Cassette	<input type="checkbox"/> Soil	Lead Waste Characterization: <input type="checkbox"/> TLIC <input type="checkbox"/> STLC <input type="checkbox"/> TCLP							
Custom Order	* <input type="checkbox"/> No Test, Hold Sample Until: _____ * <input type="checkbox"/> Post Test, Hold Sample Until: _____											
Reanalysis by:	<input type="checkbox"/> Sensitivity: _____ <input type="checkbox"/> Composite <input type="checkbox"/> Other: _____											

Sample #	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (pm)		Volume or Area Sampled	8 Hour TWA Requested	Description
						On	Off			
SP-5-1	Soil-Bulk	1/10/13	9:03						<input type="checkbox"/>	
SP-5-2			10:04						<input type="checkbox"/>	
SP-5-3			10:41						<input type="checkbox"/>	
SP-5-4			11:17						<input type="checkbox"/>	
SP-6-1		1/14/13	10:32						<input type="checkbox"/>	
SP-6-2			10:44						<input type="checkbox"/>	
SP-6-3			11:26						<input type="checkbox"/>	
SP-6-4			9:06						<input type="checkbox"/>	

Submitted By: <u>Thomas York</u>	Received By:
Date/Time Submitted: <u>01-22-13 P01:49 IN</u>	Date/Time Received: <u>01-22-13 P01:48 IN</u>
Submitted By: _____	Received By: <u>ATEM/R. Payne</u>
Date/Time Submitted: _____	Date/Time Received: _____

\*All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service



**ASBESTOS TEM LABORATORIES, INC.**

**CARB Method 435  
Polarized Light Microscopy  
Analytical Report**

**Laboratory Job # 1340-00023**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Jan/29/2013

Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Rd West  
Danville, CA 94526

RE: LABORATORY JOB # 1340-00023  
Polarized light microscopy analytical results for 11 bulk sample(s).  
Job Site:  
Job No.: Comm Hill

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---

630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Tom McCloskey	Samples Submitted: 11	Report No. <b>315104</b>
Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Samples Analyzed: 11	Date Submitted: Jan-22-13
	Job Site / No. Comm Hill	Date Reported: Jan-29-13

SAMPLE ID	ASBESTOS			LOCATION / DESCRIPTION
	POINTS COUNTED	%	TYPE	
SP-1-1	2	0.20%	Chrysotile	
Lab ID # 1340-00023-001	1000 - Total Points			
SP-1-2	1	0.10%	Chrysotile	
Lab ID # 1340-00023-002	1000 - Total Points			
SP-1-3		<0.10%	Chrysotile	Asbestos detecte in non counted portion of sample.
Lab ID # 1340-00023-003	1000 - Total Points			
SP-1-4		<0.10%	Chrysotile	Asbestos detecte in non counted portion of sample.
Lab ID # 1340-00023-004	1000 - Total Points			
SP-2-1		<0.10%	Chrysotile	Asbestos detecte in non counted portion of sample.
Lab ID # 1340-00023-005	1000 - Total Points			
SP-2-2		<0.10%	Chrysotile	Asbestos detecte in non counted portion of sample.
Lab ID # 1340-00023-006	1000 - Total Points			
SP-3-1		<0.10%	Chrysotile	Asbestos detecte in non counted portion of sample.
Lab ID # 1340-00023-007	1000 - Total Points			
SP-4-1		<0.10%	Chrysotile	Asbestos detecte in non counted portion of sample.
Lab ID # 1340-00023-008	1000 - Total Points			
SP-4-2		<0.10%	None Detected	No Point Count Performed - ARB Exception I
Lab ID # 1340-00023-009	1000 - Total Points			
SP-4-3		<0.10%	None Detected	No Point Count Performed - ARB Exception I
Lab ID # 1340-00023-010	1000 - Total Points			

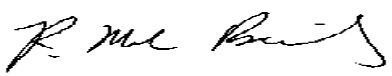
QC Reviewer 

Analyst 

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Tom McCloskey	Samples Submitted: 11	Report No. <b>315104</b>
Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Samples Analyzed: 11	Date Submitted: Jan-22-13
	Job Site / No. Comm Hill	Date Reported: Jan-29-13

SAMPLE ID	POINTS COUNTED	ASBESTOS %	TYPE	LOCATION / DESCRIPTION
SP-4-4		<b>&lt;0.10%</b>	<b>Chrysotile</b>	
Lab ID # 1340-00023-011	<b>1000</b> - Total Points			Asbestos detecte in non counted portion of sample.
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer 

Analyst 

**ASBESTOS TEM LABORATORIES CHAIN OF CUSTODY** - [www.asbestostemplabs.com](http://www.asbestostemplabs.com)  
 CALIFORNIA: 630 Bancroft Way, Berkeley, CA 94710 Phone (510) 704-8930 Fax (510) 704-8429  
 NEVADA: 1350 Freeport Blvd. #104, Sparks, NV 89431 Phone (775) 359-3377 Fax (775) 359-2798

Company: McCluskey Consultants Contact: Tom McCluskey Phone/Fax: 925.786.2167 Email: Tom@mccluskeyconsultants.com  
 Address: 420 Stearns Valley Rd West City: Danville State: CA Zip: 94526  
 Job Site: Comch Hill Job No: \_\_\_\_\_ P.O. No: \_\_\_\_\_

Reporting:  Fax  Phone  Email  Mail  FTP  EDD/State Form  Verbal  Pickup  Fax  Mail  Pre-Paid  3<sup>rd</sup> Party

Results Due:  2 hr  4 hr  6 hr  8 hr  24 hr  48 hr  3 day  4 day  5 day  10 day  Time due: \_\_\_\_\_ \* Contact lab to confirm TAT

Asbestos Air:  PCM (NIOSH 7400A)  TEM AHERA  TEM CARB Mod. AHERA  TEM EPA Yamate Level  TEM NIOSH 7402, Issue 2  ISO 10312  ISO 13794

Asbestos Bulk:  PLM Standard (EPA 600/R-93-1)  PLM 400 PC  PLM 1000 PC  PLM 400 PC Grav. Red.  PLM 1000 PC Grav. Red.  TEM EPA Qualitative  TEM EPA Quantitative

Asbestos Soil:  TEM Chatfield (Semi-Quant)  PLM Vermiculite Attic Insulation  Custom Analysis: Type: \_\_\_\_\_

Asbestos Dust:  CARB 435 Prep Only  CARB 435 PLM 1000 PC  EPA Soil Screening Qualitative  TEM EPA/CARB Quantitative

Asbestos Water:  ASTM D-5755 Fiber Count  ASTM D-5756 Wt. %  ASTM D-5756 Mass  ASTM D-6840-99 Dust Wipe  Total Particulates (Grav)

Lead:  100.2 Potable Drinking Water  100.1 Non Potable Water

Sample Storage:  Paint Chips  Dust Wipe  Air Cassette  Soil  Lead Waste Characterization:  TLIC  STLC  TCLP

Customer Order:  \*No Test, Hold Sample Until: \_\_\_\_\_ \*Post Test, Hold Sample Until: \_\_\_\_\_

Sample #	Sample Type	Date Collected	Time On	Time Off	Total Time (min)	Flow Rate (lpm)		Volume or Area Sampled	8 Hour TWA Requested	Description
						On	Off			
SP-1-1	Soil-Bulk	1-7-13	11:32							
SP-1-2			11:57							
SP-1-3			12:16							
SP-1-4			13:02							
SP-2-1		1-8-13	11:29							
SP-2-2			13:12							
SP-3-1			14:43							
SP-4-1		1-9-13	8:42							
SP-4-2			8:59							
SP-4-3			11:11							
SP-4-4			13:24							

Submitted By: [Signature] Received By: ATEM/RP/ps  
 Date/Time Submitted: 01-22-13 10:50 IN Date/Time Received: 01-22-13 10:48 IN  
 Submitted By: \_\_\_\_\_ Date/Time Received: \_\_\_\_\_  
 Date/Time Submitted: \_\_\_\_\_ Date/Time Received: \_\_\_\_\_

\*All samples will be held for 3 months from the date of receipt at ATEM. Additional sample storage time may be obtained through ATEM Customer Service



**ASBESTOS TEM LABORATORIES, INC.**

**CARB Method 435  
Polarized Light Microscopy  
Analytical Report**

**Laboratory Job # 1340-00026**

630 Bancroft Way  
Berkeley, CA 94710  
(510) 704-8930  
FAX (510) 704-8429

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ASBESTOS TEM LABORATORIES, INC

CA DPH ELAP  
Lab No. 1866



NVLAP Lab Code: 101891-0  
Berkeley, CA

Feb/05/2013

Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Rd West  
Danville, CA 94526

RE: LABORATORY JOB # 1340-00026  
Polarized light microscopy analytical results for 5 bulk sample(s).  
Job Site:  
Job No.: Comm Hill

Enclosed please find the bulk material analytical results for one or more samples submitted for asbestos analysis. The analyses were performed in accordance with the California Air Resources Board (ARB) Method 435 for the determination of asbestos in serpentine aggregate samples.

Prior to analysis, samples are logged-in and all data pertinent to the sample recorded. The samples are checked for damage or disruption of any chain-of-custody seals. A unique laboratory ID number is assigned to each sample. A hard copy log-in sheet containing all pertinent information concerning the sample is generated. This and all other relevant paper work are kept with the sample throughout the analytical procedures to assure proper analysis.

Sample preparation follows a standard CARB 435 prep method. The entire sample is dried at 135-150 C and then crushed to ~3/8" gravel size using a Bico Chipmunk crusher. If the submitted sample is >1 pint, the sample was split using a 1/2" riffle splitter following ASTM Method C-702-98 to obtain a 1 pint aliquot. The entire 1 pint aliquot, or entire original sample, is then pulverized in a Bico Braun disc pulverizer calibrated to produce a nominal 200 mesh final product. If necessary, additional homogenization steps are undertaken using a 3/8" riffle splitter. Small aliquots are collected from throughout the pulverized material to create three separate microscope slide mounts containing the appropriate refractive index oil. The prepared slides are placed under a polarizing light microscope where standard mineralogical techniques are used to analyze the various materials present, including asbestos. If asbestos is identified and of less than 10% concentration by visual area estimate then an additional five sample mounts are prepared. Quantification of asbestos concentration is obtained using the standard CAL ARB Method 435 point count protocol. For samples observed to contain visible asbestos of less than 10% concentration, a point counting technique is used with 50 points counted on each of eight sample mounts for a total of 400 points. The data is then compiled into standard report format and subjected to a thorough quality assurance check before the information is released to the client.

While the CARB 435 method has much to commend it, there are a number of situations where it fails to provide sufficient accuracy to make a definitive determination of the presence/absence of asbestos and/or an accurate count of the asbestos concentration present in a given sample. These problems include, but are not limited to, 1) statistical uncertainty with samples containing <1% asbestos when too few particles are counted, 2) definitive identification and discrimination between various fibrous amphibole minerals such as tremolite/actinolite/hornblende and the "Libby amphiboles" such as tremolite/winchite/richterite/arfvedsonite, and C) small asbestiform fibers which are near or below the resolution limit of the PLM microscope such as those found in various California coast range serpentine bodies. In these cases, further analysis by transmission electron microscopy is recommended to obtain a more accurate result.

Sincerely Yours,

Lab Manager  
ASBESTOS TEM LABORATORIES, INC.

--- These results relate only to the samples tested and must not be reproduced, except in full, without the approval of the laboratory. ---


630 BANCROFT WAY • BERKELEY, CA 94710 • PH. (510) 704-8930 • FAX (510) 704-8429

With Branch Offices Located At: 1350 FREEPORT BLVD. UNIT 104, SPARKS, NV 89431

# POLARIZED LIGHT MICROSCOPY CARB 435 ANALYTICAL REPORT

Contact: Tom McCloskey	Samples Submitted: 5	Report No. <b>315107</b>
Address: McCloskey Consultants 420 Sycamore Valley Rd West Danville, CA 94526	Samples Analyzed: 5	Date Submitted: Jan-22-13
	Job Site / No. Comm Hill	Date Reported: Feb-05-13

SAMPLE ID	POINTS COUNTED	ASBESTOS %	TYPE	LOCATION / DESCRIPTION
TP-24		<0.10%	None Detected	0-2'
Lab ID # 1340-00026-001	1000 - Total Points			No Point Count Performed - ARB Exception I
TP-26		<0.10%	Chrysotile	0-1 1/2'
Lab ID # 1340-00026-002	1000 - Total Points			Asbestos detected in non counted portion of sample.
TP-27		<0.10%	None Detected	0-1 1/2'
Lab ID # 1340-00026-003	1000 - Total Points			No Point Count Performed - ARB Exception I
TP-28		<0.10%	None Detected	0-1'
Lab ID # 1340-00026-004	1000 - Total Points			No Point Count Performed - ARB Exception I
TP-29		<0.10%	None Detected	0-3'
Lab ID # 1340-00026-005	1000 - Total Points			No Point Count Performed - ARB Exception I
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			
Lab ID #	- Total Points			

QC Reviewer 

Analyst 







Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301058

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 16 sample(s) on January 09, 2013 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

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Patti Sandrock  
QA Officer

January 16, 2013

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Date



**Date:** 1/16/2013

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**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301058

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Analytical Comments for method 6010B, 1301058-005A MS/MSD, QC Analytical Batch ID 413395,  
Note: The % recoveries for Nickel are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13

Date Reported: 01/16/13

SP-1-(1A, 1B)

1301058-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE	SW8081A	10	5.1	20	9.5	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	21	ug/Kg
Barium	SW6010B	1	0.07	5.0	160	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	89	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	17	mg/Kg
Copper	SW6010B	1	0.650	5.0	29	mg/Kg
Lead	SW6010B	1	0.14	1.0	9.1	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	140	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	48	mg/Kg
Zinc	SW6010B	1	0.25	5.0	58	mg/Kg

SP-1-(2A, 2B)

1301058-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.25	1.7	1.8	mg/Kg
Barium	SW6010B	1	0.07	5.0	180	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	77	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	16	mg/Kg
Copper	SW6010B	1	0.650	5.0	32	mg/Kg
Lead	SW6010B	1	0.14	1.0	11	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	120	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	47	mg/Kg
Zinc	SW6010B	1	0.25	5.0	54	mg/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	6.8	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	10	ug/Kg
Chlordane	SW8081A	4	41	80	60	ug/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13  
1301058-015

SP-1-(3A, 3B)

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE	SW8081A	10	5.1	20	19	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	23	ug/Kg
Barium	SW6010B	1	0.07	5.0	160	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	84	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	18	mg/Kg
Copper	SW6010B	1	0.650	5.0	32	mg/Kg
Lead	SW6010B	1	0.14	1.0	8.8	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	140	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	47	mg/Kg
Zinc	SW6010B	1	0.25	5.0	52	mg/Kg

SP-1-(4A, 4B)

1301058-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.25	1.7	2.7	mg/Kg
Barium	SW6010B	1	0.07	5.0	130	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	59	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	29	mg/Kg
Lead	SW6010B	1	0.14	1.0	13	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	100	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	33	mg/Kg
Zinc	SW6010B	1	0.25	5.0	56	mg/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	3.9	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	12	ug/Kg



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-1-(1A, 1B)	<b>Lab Sample ID:</b>	1301058-005A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/07/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	160		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	89		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	17		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	29		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	9.1		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	140		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	48		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	58		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(1A, 1B)	Lab Sample ID:	1301058-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	10	5.6	20	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	10	4.0	20	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	10	8.1	20	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	10	3.6	20	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	10	9.4	20	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	10	6.4	20	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	10	5.1	20	9.5	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	10	8.6	20	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	10	7.6	20	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	10	8.2	20	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	10	6.7	20	21		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	10	4.6	20	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	10	6.1	50	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	10	100	200	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	10	82	1000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	10	52.5	139	86.7		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	10	50.2	139	98.3		%	413442	7546



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(1A, 1B)	Lab Sample ID:	1301058-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	5	0.06100	0.248	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03845	0.248	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03770	0.248	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	5	0.04135	0.248	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	5	0.04220	0.248	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	5	0.04800	0.248	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	5	0.04855	0.248	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	5	0.04840	0.248	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.04835	0.248	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	5	0.06200	0.248	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	5	0.03605	0.248	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	5	0.03275	0.498	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.02415	0.248	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.03920	0.248	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	5	0.03660	0.248	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	5	0.05400	0.248	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	5	0.05200	0.248	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	5	0.05600	0.248	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	5	25	91.6	66.3		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	5	24.3	129	53.4		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-1-(2A, 2B)	<b>Lab Sample ID:</b>	1301058-010A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/07/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	1.8		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	180		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	77		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	16		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	32		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	11		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	120		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	47		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	54		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543





## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(2A, 2B)	Lab Sample ID:	1301058-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	4	2.4	8.0	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	4	2.5	8.0	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	4	1.6	8.0	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	4	1.4	8.0	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	4	3.8	8.0	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	4	2.6	8.0	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	4	2.0	8.0	6.8	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	4	3.4	8.0	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	4	3.0	8.0	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	4	3.3	8.0	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	4	2.7	8.0	10		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	4	1.8	8.0	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	4	2.5	20	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	4	41	80	60		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	4	33	400	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	4	52.5	139	99.0		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	4	50.2	139	107		%	413442	7546



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-1-(2A, 2B)	<b>Lab Sample ID:</b>	1301058-010A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/07/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	8270CSIM	1/10/13	01/10/13	1	0.01220	0.0495	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	1	0.007690	0.0495	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	1	0.007540	0.0495	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	1	0.008270	0.0495	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	1	0.008440	0.0495	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	1	0.009600	0.0495	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	1	0.009710	0.0495	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	1	0.009680	0.0495	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	1	0.009670	0.0495	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	1	0.01240	0.0495	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	1	0.007210	0.0495	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	1	0.006550	0.0995	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	1	0.004830	0.0495	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	1	0.007840	0.0495	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	1	0.007320	0.0495	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	1	0.01080	0.0495	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	1	0.01040	0.0495	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	1	0.01120	0.0495	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	1	25	91.6	85.6		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	1	24.3	129	56.0		%	413393	7544



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-1-(3A, 3B)	<b>Lab Sample ID:</b>	1301058-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/07/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	160		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	84		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	18		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	32		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	8.8		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	140		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	47		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	52		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(3A, 3B)	Lab Sample ID:	1301058-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	10	5.6	20	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	10	4.0	20	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	10	8.1	20	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	10	3.6	20	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	10	9.4	20	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	10	6.4	20	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	10	5.1	20	19	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	10	8.6	20	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	10	7.6	20	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	10	8.2	20	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	10	6.7	20	23		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	10	4.6	20	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	10	6.1	50	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	10	100	200	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	10	82	1000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	10	52.5	139	89.7		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	10	50.2	139	81.9		%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(3A, 3B)	Lab Sample ID:	1301058-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	10	0.1220	0.495	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07690	0.495	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07540	0.495	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	10	0.08270	0.495	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	10	0.08440	0.495	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	10	0.09600	0.495	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	10	0.09710	0.495	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	10	0.09680	0.495	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.09670	0.495	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	10	0.1240	0.495	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	10	0.07210	0.495	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	10	0.06550	0.995	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.04830	0.495	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.07840	0.495	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	10	0.07320	0.495	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	10	0.1080	0.495	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	10	0.1040	0.495	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	10	0.1120	0.495	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	10	25	91.6	57.2		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	10	24.3	129	52.5		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-1-(4A, 4B)	<b>Lab Sample ID:</b>	1301058-020A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/07/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	2.7		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	130		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	59		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	13		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	29		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	13		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	100		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	33		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	56		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(4A, 4B)	Lab Sample ID:	1301058-020A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	4	2.4	8.0	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	4	2.5	8.0	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	4	1.6	8.0	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	4	1.4	8.0	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	4	3.8	8.0	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	4	2.6	8.0	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	4	2.0	8.0	3.9	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	4	3.4	8.0	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	4	3.0	8.0	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	4	3.3	8.0	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	4	2.7	8.0	12		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	4	1.8	8.0	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	4	2.5	20	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	4	41	80	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	4	33	400	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	4	52.5	139	94.5		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	4	50.2	139	98.8		%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-1-(4A, 4B)	Lab Sample ID:	1301058-020A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/07/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	8270CSIM	1/10/13	01/10/13	1	0.01220	0.0495	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	1	0.007690	0.0495	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	1	0.007540	0.0495	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	1	0.008270	0.0495	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	1	0.008440	0.0495	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	1	0.009600	0.0495	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	1	0.009710	0.0495	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	1	0.009680	0.0495	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	1	0.009670	0.0495	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	1	0.01240	0.0495	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	1	0.007210	0.0495	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	1	0.006550	0.0995	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	1	0.004830	0.0495	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	1	0.007840	0.0495	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	1	0.007320	0.0495	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	1	0.01080	0.0495	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	1	0.01040	0.0495	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	1	0.01120	0.0495	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	1	25	91.6	65.0		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	1	24.3	129	57.4		%	413393	7544





### MB Summary Report

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.25	1.7	ND	
Barium	0.07	5.0	0.45	
Beryllium	0.0800	2.0	ND	
Cadmium	0.055	1.0	ND	
Chromium	0.050	5.0	0.11	
Cobalt	0.055	5.0	ND	
Copper	0.65	5.0	ND	
Lead	0.14	1.0	0.23	
Molybdenum	0.12	5.0	ND	
Nickel	0.050	5.0	0.090	
Selenium	0.42	5.0	ND	
Silver	0.37	1.0	ND	
Thallium	0.49	5.0	ND	
Vanadium	0.18	5.0	ND	
Zinc	0.25	5.0	0.28	

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	



## MB Summary Report

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Naphthalene	0.008052	0.0327	ND		
2-Methylnaphthalene	0.005075	0.0327	ND		
1-Methylnaphthalene	0.004976	0.0327	ND		
Acenaphthylene	0.005458	0.0327	ND		
Acenaphthene	0.005570	0.0327	ND		
Fluorene	0.006336	0.0327	ND		
Phenanthrene	0.006409	0.0327	ND		
Anthracene	0.006389	0.0327	ND		
Fluoranthene	0.006382	0.0327	ND		
Pyrene	0.008184	0.0327	ND		
Benz[a]anthracene	0.004759	0.0327	ND		
Chrysene	0.004323	0.0657	ND		
Benzo[b]fluoranthene	0.003188	0.0327	ND		
Benzo[k]fluoranthene	0.005174	0.0327	ND		
Benzo[a]pyrene	0.004831	0.0327	ND		
Indeno[1,2,3-cd]pyrene	0.007128	0.0327	ND		
Dibenz[a,h]anthracene	0.006864	0.0327	ND		
Benzo[g,h,i]perylene	0.007392	0.0327	ND		
2-Fluorobiphenyl (S)			79.6		
p-Terphenyl-d14 (S)			64.3		



## MB Summary Report

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7546
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/11/13	<b>Analytical Batch:</b>	413415
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
alpha-BHC	0.61	2.0	ND		
gamma-BHC	0.61	2.0	ND		
beta-BHC	0.56	2.0	ND		
delta-BHC	0.40	2.0	ND		
Heptachlor	0.79	2.0	ND		
Aldrin	0.81	2.0	ND		
Heptachlor epoxide	0.36	2.0	ND		
gamma-Chlordane	0.79	2.0	ND		
alpha-Chlordane	0.94	2.0	ND		
Endosulfan I	0.64	2.0	ND		
4,4'-DDE	0.51	2.0	ND		
Dieldrin	0.58	2.0	ND		
Endrin	0.86	2.0	ND		
4,4'-DDD	0.76	2.0	ND		
Endosulfan II	0.82	2.0	ND		
4,4'-DDT	0.67	2.0	ND		
Endrin aldehyde	0.46	2.0	ND		
Endosulfan sulfate	0.58	2.0	ND		
Methoxychlor	0.61	5.0	ND		
Endrin Ketone	0.58	2.0	ND		
Chlordane	10	20	ND		
Toxaphene	8.2	100	ND		
TCMX (S)			101		
DCBP (S)			104		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	97.5	97.1	0.401	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	95.8	95.5	0.324	71 - 121	30	
Barium	0.07	5.0	0.45	50	99.8	99.2	0.623	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	96.3	96.6	0.280	73.3 - 115	30	
Cadmium	0.055	1.0	ND	50	94.4	94.4	0.0530	68.7 - 110	30	
Chromium	0.050	5.0	0.11	50	98.8	98.3	0.538	76 - 116	30	
Cobalt	0.055	5.0	ND	50	96.8	96.4	0.373	57.4 - 122	30	
Copper	0.65	5.0	ND	50	98.1	97.1	1.03	74.8 - 119	30	
Lead	0.14	1.0	0.23	50	97.3	96.6	0.712	67.9 - 118	30	
Molybdenum	0.12	5.0	ND	50	100	99.2	0.803	62.9 - 123	30	
Nickel	0.050	5.0	0.090	50	97.0	96.3	0.714	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	93.1	92.1	1.05	62 - 111	30	
Silver	0.37	1.0	ND	50	94.7	94.4	0.349	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	92.5	92.7	0.227	39.2 - 125	30	
Vanadium	0.18	5.0	ND	50	99.6	99.1	0.483	65.8 - 122	30	
Zinc	0.25	5.0	0.28	50	92.6	92.0	0.683	59.9 - 122	30	

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	99.5	101	1.46	80.5 - 133	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.005570	0.0327	ND	0.2500	58.4	49.6	16.2	11.9 - 106	30	
Pyrene	0.008184	0.0327	ND	0.2500	83.4	81.7	2.06	16.9 - 136	30	
2-Fluorobiphenyl (S)			ND	5	86.3	71.1		25 - 91.6		
p-Terphenyl-d14 (S)			ND	12	59.4	59.4		24.3 - 129		

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7546
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/11/13	<b>Analytical Batch:</b>	413415
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	102	101	1.83	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	107	105	1.98	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	100	98.4	2.03	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	103	101	2.41	44 - 130	30	
Endrin	0.86	2.0	ND	20	112	111	1.03	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	120	122	2.45	52.8 - 134	30	
TCMX (S)			ND	350	98.9	97.5		52.5 - 139		
DCBP (S)			ND	350	101	100		50.2 - 139		



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Spiked Sample:</b>	1301058-005A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	0.074	50	67.5	68.4	1.17	30.7 - 130	30	
Arsenic	0.25	1.7	-0.019	50	83.3	86.4	3.76	71 - 121	30	
Barium	0.07	5.0	3.1	50	106	126	4.72	70.2 - 130	30	
Beryllium	0.0800	2.0	-0.0071	50	87.9	87.8	0.184	73.3 - 115	30	
Cadmium	0.055	1.0	0.0024	50	86.4	88.9	2.92	68.7 - 110	30	
Chromium	0.050	5.0	1.8	50	103	113	3.61	76 - 116	30	
Cobalt	0.055	5.0	0.33	50	80.1	86.9	5.93	57.4 - 122	30	
Copper	0.65	5.0	0.58	50	100	103	1.82	74.8 - 119	30	
Lead	0.14	1.0	0.18	50	81.9	84.3	2.37	67.9 - 118	30	
Molybdenum	0.12	5.0	-0.0093	50	83.5	84.9	1.78	62.9 - 123	30	
Nickel	0.050	5.0	2.7	50	101	127	6.72	61.5 - 122	30	S
Selenium	0.42	5.0	-0.041	50	80.9	82.2	1.69	62 - 111	30	
Silver	0.37	1.0	-0.024	50	93.5	93.7	0.241	81.1 - 109	30	
Thallium	0.49	5.0	-0.015	50	75.6	75.4	0.243	39.2 - 125	30	
Vanadium	0.18	5.0	0.96	50	92.7	105	5.95	65.8 - 122	30	
Zinc	0.25	5.0	1.2	50	70.4	111	19.4	59.9 - 122	30	

<b>Work Order:</b>	1301058	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Spiked Sample:</b>	1301058-005A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	0.00215	1.25	95.7	95.1	0.486	60 - 140	30	



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m3</b> , <b>mg.m3</b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301058

Date and Time Received: 1/9/2013 15:46

Received By: ng

Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: Client Drop Off

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes      Temperature: 2 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a      pH Adjusted by: n/a





## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 1/16/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301058**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/9/2013  
**Time Received:** 15:46

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301058-001A	SP-1-1A @2 1/2-3	01/07/13 11:32	Soil	07/08/13			Composite	
1301058-002A	SP-1-1A @5-5 1/2	01/07/13 11:35	Soil	07/08/13			Composite	
1301058-003A	SP-1-1B @2 1/2-3	01/07/13 15:13	Soil	07/08/13			Composite	
1301058-004A	SP-1-1B @5-5 1/2	01/07/13 15:16	Soil	07/08/13			Composite	
1301058-005A	SP-1-(1A, 1B)	01/07/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
<b><u>Sample Note:</u></b> Compsite: 4:1								
1301058-006A	SP-1-2A @2 1/2-3	01/07/13 11:57	Soil	07/08/13			Composite	
1301058-007A	SP-1-2A @5-5 1/2	01/07/13 11:59	Soil	07/08/13			Composite	
1301058-008A	SP-1-2B @2 1/2-3	01/08/13 10:43	Soil	07/08/13			Composite	
1301058-009A	SP-1-2B @5-5 1/2	01/08/13 10:47	Soil	07/08/13			Composite	
1301058-010A	SP-1-(2A, 2B)	01/07/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
1301058-011A	SP-1-3A @2 1/2-3	01/07/13 12:16	Soil	07/08/13			Composite	
1301058-012A	SP-1-3A @5-5 1/2	01/07/13 12:19	Soil	07/08/13			Composite	
1301058-013A	SP-1-3B @2 1/2-3	01/07/13 14:22	Soil	07/08/13			Composite	
1301058-014A	SP-1-3B @5-5 1/2	01/07/13 14:26	Soil	07/08/13			Composite	
1301058-015A	SP-1-(3A, 3B)	01/07/13	Soil	07/08/13			Composite	



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 1/16/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301058**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/9/2013  
**Time Received:** 15:46

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301058-016A	SP-1-4A @2 1/2-3	01/07/13 13:02	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
1301058-017A	SP-1-4A @5-5 1/2	01/07/13 13:05	Soil	07/08/13			Composite	
1301058-018A	SP-1-4B @2 1/2-3	01/07/13 13:37	Soil	07/08/13			Composite	
1301058-019A	SP-1-4B @5-5 1/2	01/07/13 13:40	Soil	07/08/13			Composite	
1301058-020A	SP-1-(4A, 4B)	01/07/13	Soil	07/08/13			S_7471BHG S_8081AOCP S_8270PAHSIM S_6010BCAM17	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO  
**1301058**

**NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.**

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments:  
 Telephone: 925-786-2667 FAX: 925-786-2667 4-pt Composite Samples  
 REPORT TO: Tom McCloskey / Chris Vertin SAMPLER: Chris Vertin P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:  Storm Water  Air  QC Level IV  
 Waste Water  Other  EDF  
 Ground Water  Excel / EDD  
 Soil

REPORT FORMAT:  Metals - CDM 17  
 OCPs (8081)  
 SEMI-VCS (8270 SIM)

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
011A		SP-1-3A c2 1/2-3	1:7-13 12:46	Soil	1	4oz 8/19/05 JAS	} -015A 4pt Composite
012A		SP-1-3Ac 5-5 1/2	12:49				
013A		SP-1-3B c2 1/2-3	14:22				
014A		SP-1-3B c 5-5 1/2	14:26				} -020A 4pt Composite
016A		SP-1-4A c2 1/2-3	13:02				
017A		SP-1-4A c 5-5 1/2	13:05				
018A		SP-1-4B c 2 1/2-3	13:37				} 4pt Composite
019A		SP-1-4B c 5-5 1/2	13:40				

TORRENT LAB

Relinquished By: [Signature] Print: Christopher Vertin Date: 1/9/13 Time: 15:46  
 Received By: [Signature] Print: C-D. Imbat Date: 1-9-13 Time: 1546

Were Samples Received In Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D/O Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 2 °C Page 2 of 6  
 Log In By: [Signature] Date: 1/9/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO  
 1301058

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Conant Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments:  
 Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_ Composite Samples - 4 pts  
 REPORT TO: Tom McCloskey / Chris Vertin SAMPLER: Chris Vertin P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME: Vertin SAMPLE TYPE: REPORT FORMAT:  
 10 Work Days  4 Work Days  1 Work Day  Storm Water  Air  QC Level IV  
 7 Work Days  3 Work Days  Noon - Nxt Day  Waste Water  Other  EDF  
 5 Work Days  2 Work Days  2 - 8 Hours  Ground Water  Excel / EDD  
 Soil  Soil

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
001A	SP-1- <del>SP</del> -1A c 2 1/2-3		1-7-13 11:32	Soil	1	402 gles Jar	} 4 pt Composite
002A	SP-1- <del>SP</del> -1A c 5-5 1/2		11:35				
003A	SP-1- <del>SP</del> -1B c 2 1/2-3		15:13				
004A	SP-1- <del>SP</del> -1B c 5-5 1/2		15:16				} -005A
006A	SP-1- <del>SP</del> -2A c 2 1/2-3		11:57				
007A	SP-1- <del>SP</del> -2A c 5-5 1/2		11:59				} -010A
008A	SP-1- <del>SP</del> -2B c 2 1/2-3		1-8-13 10:43				
009A	SP-1- <del>SP</del> -2B c 5-5 1/2		10:47				

1 Relinquished By: [Signature] Print: Christopher Vertin Date: 1/9/13 Time: 15:46 Received By: [Signature] Print: L-D. Imboad Date: 1-9-13 Time: 1546  
 2 Relinquished By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D/O Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp: 2 °C Page 1 of 6  
 Log In By: [Signature] Date: 1/9/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301067 Rev: 1

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 20 sample(s) on January 11, 2013 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Janice Winn-Shilling", is written over a light blue rectangular background.

---

Janice Winn-Shilling  
Sr. Project Manager

January 18, 2013

---

Date



**Date:** 1/18/2013

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**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301067

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Analytical Comments for method 8270SIM, MS/MSD, Note: The % recoveries are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

#### **REVISIONS:**

Report revised to include Hg on 4 samples per client request.

Rev 1 (02/11/13)



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13

Date Reported: 01/18/13

SP-5-1(A, B)

1301067-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	160	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	60	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	12	mg/Kg
Copper	SW6010B	1	0.650	5.0	27	mg/Kg
Lead	SW6010B	1	0.14	1.0	15	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	120	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	37	mg/Kg
Zinc	SW6010B	1	0.25	5.0	54	mg/Kg
4,4'-DDE	SW8081A	40	20	80	34	ug/Kg
4,4'-DDD	SW8081A	40	30	80	37	ug/Kg
4,4'-DDT	SW8081A	40	27	80	59	ug/Kg

SP-5-2(A, B)

1301067-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.25	1.7	2.3	mg/Kg
Barium	SW6010B	1	0.07	5.0	130	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	71	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	23	mg/Kg
Lead	SW6010B	1	0.14	1.0	14	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	150	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	33	mg/Kg
Zinc	SW6010B	1	0.25	5.0	46	mg/Kg
4,4'-DDE	SW8081A	40	20	80	23	ug/Kg
4,4'-DDT	SW8081A	40	27	80	56	ug/Kg



### Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13  
1301067-015

SP-5-3(A,B)

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	170	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	53	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	12	mg/Kg
Copper	SW6010B	1	0.650	5.0	26	mg/Kg
Lead	SW6010B	1	0.14	1.0	14	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	91	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	40	mg/Kg
Zinc	SW6010B	1	0.25	5.0	50	mg/Kg
4,4'-DDE	SW8081A	40	20	80	35	ug/Kg
4,4'-DDT	SW8081A	40	27	80	56	ug/Kg

SP-5-4(A,B)

1301067-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	150	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	72	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	28	mg/Kg
Lead	SW6010B	1	0.14	1.0	15	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	120	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	41	mg/Kg
Zinc	SW6010B	1	0.25	5.0	51	mg/Kg
4,4'-DDE	SW8081A	40	20	80	37	ug/Kg
4,4'-DDT	SW8081A	40	27	80	58	ug/Kg

SP-6-1A @6-6 1/2

1301067-021

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.





## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13  
1301067-022

SP-6-1B @12-12 1/2

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.

SP-6-1C @9-9 1/2

1301067-023

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Mercury	SW7471A	5	0.8	2.5	7.5	mg/Kg

SP-6-1D @3-3 1/2

1301067-024

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Mercury	SW7471A	5	0.8	2.5	9.5	mg/Kg

SP-6(A,B,C,D)

1301067-025

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	130	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	56	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	12	mg/Kg
Copper	SW6010B	1	0.650	5.0	28	mg/Kg
Lead	SW6010B	1	0.14	1.0	15	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	79	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	43	mg/Kg
Zinc	SW6010B	1	0.25	5.0	77	mg/Kg
Mercury	SW7471A	5	0.8	2.5	5.5	mg/Kg
gamma-Chlordane	SW8081A	40	32	80	39	ug/Kg
alpha-Chlordane	SW8081A	40	38	80	53	ug/Kg
4,4'-DDE	SW8081A	40	20	80	33	ug/Kg
4,4'-DDT	SW8081A	40	27	80	63	ug/Kg



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-1(A, B)	Lab Sample ID:	1301067-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/14/13	01/14/13	1	0.20	5.0	ND		mg/Kg	413438	7558
Arsenic	SW6010B	1/14/13	01/14/13	1	0.25	1.7	ND		mg/Kg	413438	7558
Barium	SW6010B	1/14/13	01/14/13	1	0.07	5.0	160		mg/Kg	413438	7558
Beryllium	SW6010B	1/14/13	01/14/13	1	0.0800	2.0	ND		mg/Kg	413438	7558
Cadmium	SW6010B	1/14/13	01/14/13	1	0.0550	1.0	ND		mg/Kg	413438	7558
Chromium	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	60		mg/Kg	413438	7558
Cobalt	SW6010B	1/14/13	01/14/13	1	0.055	5.0	12		mg/Kg	413438	7558
Copper	SW6010B	1/14/13	01/14/13	1	0.650	5.0	27		mg/Kg	413438	7558
Lead	SW6010B	1/14/13	01/14/13	1	0.14	1.0	15		mg/Kg	413438	7558
Molybdenum	SW6010B	1/14/13	01/14/13	1	0.120	5.0	ND		mg/Kg	413438	7558
Nickel	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	120		mg/Kg	413438	7558
Selenium	SW6010B	1/14/13	01/14/13	1	0.42	5.0	ND		mg/Kg	413438	7558
Silver	SW6010B	1/14/13	01/14/13	1	0.37	1.0	ND		mg/Kg	413438	7558
Thallium	SW6010B	1/14/13	01/14/13	1	0.49	5.0	ND		mg/Kg	413438	7558
Vanadium	SW6010B	1/14/13	01/14/13	1	0.18	5.0	37		mg/Kg	413438	7558
Zinc	SW6010B	1/14/13	01/14/13	1	0.25	5.0	54		mg/Kg	413438	7558

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/14/13	01/15/13	1	0.2	0.50	ND		mg/Kg	413447	7563



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-1(A, B)	Lab Sample ID:	1301067-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/18/13	01/18/13	40	24	80	ND		ug/Kg	413532	7608
gamma-BHC	SW8081A	1/18/13	01/18/13	40	25	80	ND		ug/Kg	413532	7608
beta-BHC	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
delta-BHC	SW8081A	1/18/13	01/18/13	40	16	80	ND		ug/Kg	413532	7608
Heptachlor	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Aldrin	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Heptachlor epoxide	SW8081A	1/18/13	01/18/13	40	14	80	ND		ug/Kg	413532	7608
gamma-Chlordane	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
alpha-Chlordane	SW8081A	1/18/13	01/18/13	40	38	80	ND		ug/Kg	413532	7608
Endosulfan I	SW8081A	1/18/13	01/18/13	40	26	80	ND		ug/Kg	413532	7608
4,4'-DDE	SW8081A	1/18/13	01/18/13	40	20	80	34	J	ug/Kg	413532	7608
Dieldrin	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Endrin	SW8081A	1/18/13	01/18/13	40	34	80	ND		ug/Kg	413532	7608
4,4'-DDD	SW8081A	1/18/13	01/18/13	40	30	80	37	J	ug/Kg	413532	7608
Endosulfan II	SW8081A	1/18/13	01/18/13	40	33	80	ND		ug/Kg	413532	7608
4,4'-DDT	SW8081A	1/18/13	01/18/13	40	27	80	59	J	ug/Kg	413532	7608
Endrin aldehyde	SW8081A	1/18/13	01/18/13	40	18	80	ND		ug/Kg	413532	7608
Endosulfan sulfate	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Methoxychlor	SW8081A	1/18/13	01/18/13	40	25	200	ND		ug/Kg	413532	7608
Endrin Ketone	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Chlordane	SW8081A	1/18/13	01/18/13	40	410	800	ND		ug/Kg	413532	7608
Toxaphene	SW8081A	1/18/13	01/18/13	40	330	4000	ND		ug/Kg	413532	7608
TCMX (S)	SW8081A	1/18/13	01/18/13	40	52.5	139	0.000	D	%	413532	7608
DCBP (S)	SW8081A	1/18/13	01/18/13	40	50.2	139	0.000	D	%	413532	7608

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-1(A, B)	Lab Sample ID:	1301067-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/16/13	01/16/13	10	0.6100	2.48	ND		mg/Kg	413483	7587
2-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3845	2.48	ND		mg/Kg	413483	7587
1-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3770	2.48	ND		mg/Kg	413483	7587
Acenaphthylene	8270CSIM	1/16/13	01/16/13	10	0.4135	2.48	ND		mg/Kg	413483	7587
Acenaphthene	8270CSIM	1/16/13	01/16/13	10	0.4220	2.48	ND		mg/Kg	413483	7587
Fluorene	8270CSIM	1/16/13	01/16/13	10	0.4800	2.48	ND		mg/Kg	413483	7587
Phenanthrene	8270CSIM	1/16/13	01/16/13	10	0.4855	2.48	ND		mg/Kg	413483	7587
Anthracene	8270CSIM	1/16/13	01/16/13	10	0.4840	2.48	ND		mg/Kg	413483	7587
Fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.4835	2.48	ND		mg/Kg	413483	7587
Pyrene	8270CSIM	1/16/13	01/16/13	10	0.6200	2.48	ND		mg/Kg	413483	7587
Benz[a]anthracene	8270CSIM	1/16/13	01/16/13	10	0.3605	2.48	ND		mg/Kg	413483	7587
Chrysene	8270CSIM	1/16/13	01/16/13	10	0.3275	4.98	ND		mg/Kg	413483	7587
Benzo[b]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.2415	2.48	ND		mg/Kg	413483	7587
Benzo[k]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.3920	2.48	ND		mg/Kg	413483	7587
Benzo[a]pyrene	8270CSIM	1/16/13	01/16/13	10	0.3660	2.48	ND		mg/Kg	413483	7587
Indeno[1,2,3-cd]pyrene	8270CSIM	1/16/13	01/16/13	10	0.5400	2.48	ND		mg/Kg	413483	7587
Dibenz[a,h]anthracene	8270CSIM	1/16/13	01/16/13	10	0.5200	2.48	ND		mg/Kg	413483	7587
Benzo[g,h,i]perylene	8270CSIM	1/16/13	01/16/13	10	0.5600	2.48	ND		mg/Kg	413483	7587
2-Fluorobiphenyl (S)	8270CSIM	1/16/13	01/16/13	10	25	91.6	32.2		%	413483	7587
p-Terphenyl-d14 (S)	8270CSIM	1/16/13	01/16/13	10	24.3	129	92.2		%	413483	7587

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-5-2(A, B)	<b>Lab Sample ID:</b>	1301067-010A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/14/13	01/14/13	1	0.20	5.0	ND		mg/Kg	413438	7558
Arsenic	SW6010B	1/14/13	01/14/13	1	0.25	1.7	2.3		mg/Kg	413438	7558
Barium	SW6010B	1/14/13	01/14/13	1	0.07	5.0	130		mg/Kg	413438	7558
Beryllium	SW6010B	1/14/13	01/14/13	1	0.0800	2.0	ND		mg/Kg	413438	7558
Cadmium	SW6010B	1/14/13	01/14/13	1	0.0550	1.0	ND		mg/Kg	413438	7558
Chromium	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	71		mg/Kg	413438	7558
Cobalt	SW6010B	1/14/13	01/14/13	1	0.055	5.0	13		mg/Kg	413438	7558
Copper	SW6010B	1/14/13	01/14/13	1	0.650	5.0	23		mg/Kg	413438	7558
Lead	SW6010B	1/14/13	01/14/13	1	0.14	1.0	14		mg/Kg	413438	7558
Molybdenum	SW6010B	1/14/13	01/14/13	1	0.120	5.0	ND		mg/Kg	413438	7558
Nickel	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	150		mg/Kg	413438	7558
Selenium	SW6010B	1/14/13	01/14/13	1	0.42	5.0	ND		mg/Kg	413438	7558
Silver	SW6010B	1/14/13	01/14/13	1	0.37	1.0	ND		mg/Kg	413438	7558
Thallium	SW6010B	1/14/13	01/14/13	1	0.49	5.0	ND		mg/Kg	413438	7558
Vanadium	SW6010B	1/14/13	01/14/13	1	0.18	5.0	33		mg/Kg	413438	7558
Zinc	SW6010B	1/14/13	01/14/13	1	0.25	5.0	46		mg/Kg	413438	7558

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/14/13	01/15/13	1	0.2	0.50	ND		mg/Kg	413447	7563



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-2(A, B)	Lab Sample ID:	1301067-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/18/13	01/18/13	40	24	80	ND		ug/Kg	413532	7608
gamma-BHC	SW8081A	1/18/13	01/18/13	40	25	80	ND		ug/Kg	413532	7608
beta-BHC	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
delta-BHC	SW8081A	1/18/13	01/18/13	40	16	80	ND		ug/Kg	413532	7608
Heptachlor	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Aldrin	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Heptachlor epoxide	SW8081A	1/18/13	01/18/13	40	14	80	ND		ug/Kg	413532	7608
gamma-Chlordane	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
alpha-Chlordane	SW8081A	1/18/13	01/18/13	40	38	80	ND		ug/Kg	413532	7608
Endosulfan I	SW8081A	1/18/13	01/18/13	40	26	80	ND		ug/Kg	413532	7608
4,4'-DDE	SW8081A	1/18/13	01/18/13	40	20	80	23	J	ug/Kg	413532	7608
Dieldrin	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Endrin	SW8081A	1/18/13	01/18/13	40	34	80	ND		ug/Kg	413532	7608
4,4'-DDD	SW8081A	1/18/13	01/18/13	40	30	80	ND		ug/Kg	413532	7608
Endosulfan II	SW8081A	1/18/13	01/18/13	40	33	80	ND		ug/Kg	413532	7608
4,4'-DDT	SW8081A	1/18/13	01/18/13	40	27	80	56	J	ug/Kg	413532	7608
Endrin aldehyde	SW8081A	1/18/13	01/18/13	40	18	80	ND		ug/Kg	413532	7608
Endosulfan sulfate	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Methoxychlor	SW8081A	1/18/13	01/18/13	40	25	200	ND		ug/Kg	413532	7608
Endrin Ketone	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Chlordane	SW8081A	1/18/13	01/18/13	40	410	800	ND		ug/Kg	413532	7608
Toxaphene	SW8081A	1/18/13	01/18/13	40	330	4000	ND		ug/Kg	413532	7608
TCMX (S)	SW8081A	1/18/13	01/18/13	40	52.5	139	0.000	D	%	413532	7608
DCBP (S)	SW8081A	1/18/13	01/18/13	40	50.2	139	0.000	D	%	413532	7608

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-5-2(A, B)	<b>Lab Sample ID:</b>	1301067-010A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/16/13	01/16/13	10	0.6100	2.48	ND		mg/Kg	413483	7587
2-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3845	2.48	ND		mg/Kg	413483	7587
1-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3770	2.48	ND		mg/Kg	413483	7587
Acenaphthylene	8270CSIM	1/16/13	01/16/13	10	0.4135	2.48	ND		mg/Kg	413483	7587
Acenaphthene	8270CSIM	1/16/13	01/16/13	10	0.4220	2.48	ND		mg/Kg	413483	7587
Fluorene	8270CSIM	1/16/13	01/16/13	10	0.4800	2.48	ND		mg/Kg	413483	7587
Phenanthrene	8270CSIM	1/16/13	01/16/13	10	0.4855	2.48	ND		mg/Kg	413483	7587
Anthracene	8270CSIM	1/16/13	01/16/13	10	0.4840	2.48	ND		mg/Kg	413483	7587
Fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.4835	2.48	ND		mg/Kg	413483	7587
Pyrene	8270CSIM	1/16/13	01/16/13	10	0.6200	2.48	ND		mg/Kg	413483	7587
Benz[a]anthracene	8270CSIM	1/16/13	01/16/13	10	0.3605	2.48	ND		mg/Kg	413483	7587
Chrysene	8270CSIM	1/16/13	01/16/13	10	0.3275	4.98	ND		mg/Kg	413483	7587
Benzo[b]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.2415	2.48	ND		mg/Kg	413483	7587
Benzo[k]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.3920	2.48	ND		mg/Kg	413483	7587
Benzo[a]pyrene	8270CSIM	1/16/13	01/16/13	10	0.3660	2.48	ND		mg/Kg	413483	7587
Indeno[1,2,3-cd]pyrene	8270CSIM	1/16/13	01/16/13	10	0.5400	2.48	ND		mg/Kg	413483	7587
Dibenz[a,h]anthracene	8270CSIM	1/16/13	01/16/13	10	0.5200	2.48	ND		mg/Kg	413483	7587
Benzo[g,h,i]perylene	8270CSIM	1/16/13	01/16/13	10	0.5600	2.48	ND		mg/Kg	413483	7587
2-Fluorobiphenyl (S)	8270CSIM	1/16/13	01/16/13	10	25	91.6	32.6		%	413483	7587
p-Terphenyl-d14 (S)	8270CSIM	1/16/13	01/16/13	10	24.3	129	77.2		%	413483	7587

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-3(A,B)	Lab Sample ID:	1301067-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/14/13	01/14/13	1	0.20	5.0	ND		mg/Kg	413438	7558
Arsenic	SW6010B	1/14/13	01/14/13	1	0.25	1.7	ND		mg/Kg	413438	7558
Barium	SW6010B	1/14/13	01/14/13	1	0.07	5.0	170		mg/Kg	413438	7558
Beryllium	SW6010B	1/14/13	01/14/13	1	0.0800	2.0	ND		mg/Kg	413438	7558
Cadmium	SW6010B	1/14/13	01/14/13	1	0.0550	1.0	ND		mg/Kg	413438	7558
Chromium	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	53		mg/Kg	413438	7558
Cobalt	SW6010B	1/14/13	01/14/13	1	0.055	5.0	12		mg/Kg	413438	7558
Copper	SW6010B	1/14/13	01/14/13	1	0.650	5.0	26		mg/Kg	413438	7558
Lead	SW6010B	1/14/13	01/14/13	1	0.14	1.0	14		mg/Kg	413438	7558
Molybdenum	SW6010B	1/14/13	01/14/13	1	0.120	5.0	ND		mg/Kg	413438	7558
Nickel	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	91		mg/Kg	413438	7558
Selenium	SW6010B	1/14/13	01/14/13	1	0.42	5.0	ND		mg/Kg	413438	7558
Silver	SW6010B	1/14/13	01/14/13	1	0.37	1.0	ND		mg/Kg	413438	7558
Thallium	SW6010B	1/14/13	01/14/13	1	0.49	5.0	ND		mg/Kg	413438	7558
Vanadium	SW6010B	1/14/13	01/14/13	1	0.18	5.0	40		mg/Kg	413438	7558
Zinc	SW6010B	1/14/13	01/14/13	1	0.25	5.0	50		mg/Kg	413438	7558

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/14/13	01/15/13	1	0.2	0.50	ND		mg/Kg	413447	7563





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-5-3(A,B)	<b>Lab Sample ID:</b>	1301067-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/18/13	01/18/13	40	24	80	ND		ug/Kg	413532	7608
gamma-BHC	SW8081A	1/18/13	01/18/13	40	25	80	ND		ug/Kg	413532	7608
beta-BHC	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
delta-BHC	SW8081A	1/18/13	01/18/13	40	16	80	ND		ug/Kg	413532	7608
Heptachlor	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Aldrin	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Heptachlor epoxide	SW8081A	1/18/13	01/18/13	40	14	80	ND		ug/Kg	413532	7608
gamma-Chlordane	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
alpha-Chlordane	SW8081A	1/18/13	01/18/13	40	38	80	ND		ug/Kg	413532	7608
Endosulfan I	SW8081A	1/18/13	01/18/13	40	26	80	ND		ug/Kg	413532	7608
4,4'-DDE	SW8081A	1/18/13	01/18/13	40	20	80	35	J	ug/Kg	413532	7608
Dieldrin	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Endrin	SW8081A	1/18/13	01/18/13	40	34	80	ND		ug/Kg	413532	7608
4,4'-DDD	SW8081A	1/18/13	01/18/13	40	30	80	ND		ug/Kg	413532	7608
Endosulfan II	SW8081A	1/18/13	01/18/13	40	33	80	ND		ug/Kg	413532	7608
4,4'-DDT	SW8081A	1/18/13	01/18/13	40	27	80	56	J	ug/Kg	413532	7608
Endrin aldehyde	SW8081A	1/18/13	01/18/13	40	18	80	ND		ug/Kg	413532	7608
Endosulfan sulfate	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Methoxychlor	SW8081A	1/18/13	01/18/13	40	25	200	ND		ug/Kg	413532	7608
Endrin Ketone	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Chlordane	SW8081A	1/18/13	01/18/13	40	410	800	ND		ug/Kg	413532	7608
Toxaphene	SW8081A	1/18/13	01/18/13	40	330	4000	ND		ug/Kg	413532	7608
TCMX (S)	SW8081A	1/18/13	01/18/13	40	52.5	139	0.000	D	%	413532	7608
DCBP (S)	SW8081A	1/18/13	01/18/13	40	50.2	139	0.000	D	%	413532	7608

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-3(A,B)	Lab Sample ID:	1301067-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/16/13	01/16/13	10	0.6100	2.48	ND		mg/Kg	413483	7587
2-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3845	2.48	ND		mg/Kg	413483	7587
1-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3770	2.48	ND		mg/Kg	413483	7587
Acenaphthylene	8270CSIM	1/16/13	01/16/13	10	0.4135	2.48	ND		mg/Kg	413483	7587
Acenaphthene	8270CSIM	1/16/13	01/16/13	10	0.4220	2.48	ND		mg/Kg	413483	7587
Fluorene	8270CSIM	1/16/13	01/16/13	10	0.4800	2.48	ND		mg/Kg	413483	7587
Phenanthrene	8270CSIM	1/16/13	01/16/13	10	0.4855	2.48	ND		mg/Kg	413483	7587
Anthracene	8270CSIM	1/16/13	01/16/13	10	0.4840	2.48	ND		mg/Kg	413483	7587
Fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.4835	2.48	ND		mg/Kg	413483	7587
Pyrene	8270CSIM	1/16/13	01/16/13	10	0.6200	2.48	ND		mg/Kg	413483	7587
Benz[a]anthracene	8270CSIM	1/16/13	01/16/13	10	0.3605	2.48	ND		mg/Kg	413483	7587
Chrysene	8270CSIM	1/16/13	01/16/13	10	0.3275	4.98	ND		mg/Kg	413483	7587
Benzo[b]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.2415	2.48	ND		mg/Kg	413483	7587
Benzo[k]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.3920	2.48	ND		mg/Kg	413483	7587
Benzo[a]pyrene	8270CSIM	1/16/13	01/16/13	10	0.3660	2.48	ND		mg/Kg	413483	7587
Indeno[1,2,3-cd]pyrene	8270CSIM	1/16/13	01/16/13	10	0.5400	2.48	ND		mg/Kg	413483	7587
Dibenz[a,h]anthracene	8270CSIM	1/16/13	01/16/13	10	0.5200	2.48	ND		mg/Kg	413483	7587
Benzo[g,h,i]perylene	8270CSIM	1/16/13	01/16/13	10	0.5600	2.48	ND		mg/Kg	413483	7587
2-Fluorobiphenyl (S)	8270CSIM	1/16/13	01/16/13	10	25	91.6	33.2		%	413483	7587
p-Terphenyl-d14 (S)	8270CSIM	1/16/13	01/16/13	10	24.3	129	71.6		%	413483	7587

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-4(A,B)	Lab Sample ID:	1301067-020A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/14/13	01/14/13	1	0.20	5.0	ND		mg/Kg	413438	7558
Arsenic	SW6010B	1/14/13	01/14/13	1	0.25	1.7	ND		mg/Kg	413438	7558
Barium	SW6010B	1/14/13	01/14/13	1	0.07	5.0	150		mg/Kg	413438	7558
Beryllium	SW6010B	1/14/13	01/14/13	1	0.0800	2.0	ND		mg/Kg	413438	7558
Cadmium	SW6010B	1/14/13	01/14/13	1	0.0550	1.0	ND		mg/Kg	413438	7558
Chromium	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	72		mg/Kg	413438	7558
Cobalt	SW6010B	1/14/13	01/14/13	1	0.055	5.0	13		mg/Kg	413438	7558
Copper	SW6010B	1/14/13	01/14/13	1	0.650	5.0	28		mg/Kg	413438	7558
Lead	SW6010B	1/14/13	01/14/13	1	0.14	1.0	15		mg/Kg	413438	7558
Molybdenum	SW6010B	1/14/13	01/14/13	1	0.120	5.0	ND		mg/Kg	413438	7558
Nickel	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	120		mg/Kg	413438	7558
Selenium	SW6010B	1/14/13	01/14/13	1	0.42	5.0	ND		mg/Kg	413438	7558
Silver	SW6010B	1/14/13	01/14/13	1	0.37	1.0	ND		mg/Kg	413438	7558
Thallium	SW6010B	1/14/13	01/14/13	1	0.49	5.0	ND		mg/Kg	413438	7558
Vanadium	SW6010B	1/14/13	01/14/13	1	0.18	5.0	41		mg/Kg	413438	7558
Zinc	SW6010B	1/14/13	01/14/13	1	0.25	5.0	51		mg/Kg	413438	7558

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/14/13	01/15/13	1	0.2	0.50	ND		mg/Kg	413447	7563



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-4(A,B)	Lab Sample ID:	1301067-020A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/18/13	01/18/13	40	24	80	ND		ug/Kg	413532	7608
gamma-BHC	SW8081A	1/18/13	01/18/13	40	25	80	ND		ug/Kg	413532	7608
beta-BHC	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
delta-BHC	SW8081A	1/18/13	01/18/13	40	16	80	ND		ug/Kg	413532	7608
Heptachlor	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Aldrin	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Heptachlor epoxide	SW8081A	1/18/13	01/18/13	40	14	80	ND		ug/Kg	413532	7608
gamma-Chlordane	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
alpha-Chlordane	SW8081A	1/18/13	01/18/13	40	38	80	ND		ug/Kg	413532	7608
Endosulfan I	SW8081A	1/18/13	01/18/13	40	26	80	ND		ug/Kg	413532	7608
4,4'-DDE	SW8081A	1/18/13	01/18/13	40	20	80	37	J	ug/Kg	413532	7608
Dieldrin	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Endrin	SW8081A	1/18/13	01/18/13	40	34	80	ND		ug/Kg	413532	7608
4,4'-DDD	SW8081A	1/18/13	01/18/13	40	30	80	ND		ug/Kg	413532	7608
Endosulfan II	SW8081A	1/18/13	01/18/13	40	33	80	ND		ug/Kg	413532	7608
4,4'-DDT	SW8081A	1/18/13	01/18/13	40	27	80	58	J	ug/Kg	413532	7608
Endrin aldehyde	SW8081A	1/18/13	01/18/13	40	18	80	ND		ug/Kg	413532	7608
Endosulfan sulfate	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Methoxychlor	SW8081A	1/18/13	01/18/13	40	25	200	ND		ug/Kg	413532	7608
Endrin Ketone	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Chlordane	SW8081A	1/18/13	01/18/13	40	410	800	ND		ug/Kg	413532	7608
Toxaphene	SW8081A	1/18/13	01/18/13	40	330	4000	ND		ug/Kg	413532	7608
TCMX (S)	SW8081A	1/18/13	01/18/13	40	52.5	139	0.000	D	%	413532	7608
DCBP (S)	SW8081A	1/18/13	01/18/13	40	50.2	139	0.000	D	%	413532	7608

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-5-4(A,B)	Lab Sample ID:	1301067-020A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/16/13	01/16/13	10	0.6100	2.48	ND		mg/Kg	413483	7587
2-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3845	2.48	ND		mg/Kg	413483	7587
1-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3770	2.48	ND		mg/Kg	413483	7587
Acenaphthylene	8270CSIM	1/16/13	01/16/13	10	0.4135	2.48	ND		mg/Kg	413483	7587
Acenaphthene	8270CSIM	1/16/13	01/16/13	10	0.4220	2.48	ND		mg/Kg	413483	7587
Fluorene	8270CSIM	1/16/13	01/16/13	10	0.4800	2.48	ND		mg/Kg	413483	7587
Phenanthrene	8270CSIM	1/16/13	01/16/13	10	0.4855	2.48	ND		mg/Kg	413483	7587
Anthracene	8270CSIM	1/16/13	01/16/13	10	0.4840	2.48	ND		mg/Kg	413483	7587
Fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.4835	2.48	ND		mg/Kg	413483	7587
Pyrene	8270CSIM	1/16/13	01/16/13	10	0.6200	2.48	ND		mg/Kg	413483	7587
Benz[a]anthracene	8270CSIM	1/16/13	01/16/13	10	0.3605	2.48	ND		mg/Kg	413483	7587
Chrysene	8270CSIM	1/16/13	01/16/13	10	0.3275	4.98	ND		mg/Kg	413483	7587
Benzo[b]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.2415	2.48	ND		mg/Kg	413483	7587
Benzo[k]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.3920	2.48	ND		mg/Kg	413483	7587
Benzo[a]pyrene	8270CSIM	1/16/13	01/16/13	10	0.3660	2.48	ND		mg/Kg	413483	7587
Indeno[1,2,3-cd]pyrene	8270CSIM	1/16/13	01/16/13	10	0.5400	2.48	ND		mg/Kg	413483	7587
Dibenz[a,h]anthracene	8270CSIM	1/16/13	01/16/13	10	0.5200	2.48	ND		mg/Kg	413483	7587
Benzo[g,h,i]perylene	8270CSIM	1/16/13	01/16/13	10	0.5600	2.48	ND		mg/Kg	413483	7587
2-Fluorobiphenyl (S)	8270CSIM	1/16/13	01/16/13	10	25	91.6	25.2		%	413483	7587
p-Terphenyl-d14 (S)	8270CSIM	1/16/13	01/16/13	10	24.3	129	55.0		%	413483	7587

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-6-1A @6-6 1/2	<b>Lab Sample ID:</b>	1301067-021A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 / 14:32		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	2/4/13	02/05/13	1	0.2	0.50	ND		mg/Kg	413799	7769



### SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-6-1B @12-12 1/2	<b>Lab Sample ID:</b>	1301067-022A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 / 15:24		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	2/4/13	02/05/13	1	0.2	0.50	ND		mg/Kg	413799	7769



### SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-6-1C @9-9 1/2	<b>Lab Sample ID:</b>	1301067-023A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 / 15:54		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	2/4/13	02/05/13	5	0.8	2.5	7.5		mg/Kg	413799	7769





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/11/13  
**Date Reported:** 01/18/13

<b>Client Sample ID:</b>	SP-6-1D @3-3 1/2	<b>Lab Sample ID:</b>	1301067-024A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/10/13 / 16:10		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	2/4/13	02/05/13	5	0.8	2.5	9.5		mg/Kg	413799	7769



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-6(A,B,C,D)	Lab Sample ID:	1301067-025A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/14/13	01/14/13	1	0.20	5.0	ND		mg/Kg	413438	7558
Arsenic	SW6010B	1/14/13	01/14/13	1	0.25	1.7	ND		mg/Kg	413438	7558
Barium	SW6010B	1/14/13	01/14/13	1	0.07	5.0	130		mg/Kg	413438	7558
Beryllium	SW6010B	1/14/13	01/14/13	1	0.0800	2.0	ND		mg/Kg	413438	7558
Cadmium	SW6010B	1/14/13	01/14/13	1	0.0550	1.0	ND		mg/Kg	413438	7558
Chromium	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	56		mg/Kg	413438	7558
Cobalt	SW6010B	1/14/13	01/14/13	1	0.055	5.0	12		mg/Kg	413438	7558
Copper	SW6010B	1/14/13	01/14/13	1	0.650	5.0	28		mg/Kg	413438	7558
Lead	SW6010B	1/14/13	01/14/13	1	0.14	1.0	15		mg/Kg	413438	7558
Molybdenum	SW6010B	1/14/13	01/14/13	1	0.120	5.0	ND		mg/Kg	413438	7558
Nickel	SW6010B	1/14/13	01/14/13	1	0.0500	5.0	79		mg/Kg	413438	7558
Selenium	SW6010B	1/14/13	01/14/13	1	0.42	5.0	ND		mg/Kg	413438	7558
Silver	SW6010B	1/14/13	01/14/13	1	0.37	1.0	ND		mg/Kg	413438	7558
Thallium	SW6010B	1/14/13	01/14/13	1	0.49	5.0	ND		mg/Kg	413438	7558
Vanadium	SW6010B	1/14/13	01/14/13	1	0.18	5.0	43		mg/Kg	413438	7558
Zinc	SW6010B	1/14/13	01/14/13	1	0.25	5.0	77		mg/Kg	413438	7558

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/14/13	01/15/13	5	0.8	2.5	5.5		mg/Kg	413447	7563



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-6(A,B,C,D)	Lab Sample ID:	1301067-025A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/18/13	01/18/13	40	24	80	ND		ug/Kg	413532	7608
gamma-BHC	SW8081A	1/18/13	01/18/13	40	25	80	ND		ug/Kg	413532	7608
beta-BHC	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
delta-BHC	SW8081A	1/18/13	01/18/13	40	16	80	ND		ug/Kg	413532	7608
Heptachlor	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Aldrin	SW8081A	1/18/13	01/18/13	40	32	80	ND		ug/Kg	413532	7608
Heptachlor epoxide	SW8081A	1/18/13	01/18/13	40	14	80	ND		ug/Kg	413532	7608
gamma-Chlordane	SW8081A	1/18/13	01/18/13	40	32	80	39	J	ug/Kg	413532	7608
alpha-Chlordane	SW8081A	1/18/13	01/18/13	40	38	80	53	J	ug/Kg	413532	7608
Endosulfan I	SW8081A	1/18/13	01/18/13	40	26	80	ND		ug/Kg	413532	7608
4,4'-DDE	SW8081A	1/18/13	01/18/13	40	20	80	33	J	ug/Kg	413532	7608
Dieldrin	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Endrin	SW8081A	1/18/13	01/18/13	40	34	80	ND		ug/Kg	413532	7608
4,4'-DDD	SW8081A	1/18/13	01/18/13	40	30	80	ND		ug/Kg	413532	7608
Endosulfan II	SW8081A	1/18/13	01/18/13	40	33	80	ND		ug/Kg	413532	7608
4,4'-DDT	SW8081A	1/18/13	01/18/13	40	27	80	63	J	ug/Kg	413532	7608
Endrin aldehyde	SW8081A	1/18/13	01/18/13	40	18	80	ND		ug/Kg	413532	7608
Endosulfan sulfate	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Methoxychlor	SW8081A	1/18/13	01/18/13	40	25	200	ND		ug/Kg	413532	7608
Endrin Ketone	SW8081A	1/18/13	01/18/13	40	23	80	ND		ug/Kg	413532	7608
Chlordane	SW8081A	1/18/13	01/18/13	40	410	800	ND		ug/Kg	413532	7608
Toxaphene	SW8081A	1/18/13	01/18/13	40	330	4000	ND		ug/Kg	413532	7608
TCMX (S)	SW8081A	1/18/13	01/18/13	40	52.5	139	0.000	D	%	413532	7608
DCBP (S)	SW8081A	1/18/13	01/18/13	40	50.2	139	0.000	D	%	413532	7608

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/11/13  
Date Reported: 01/18/13

Client Sample ID:	SP-6(A,B,C,D)	Lab Sample ID:	1301067-025A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/10/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/16/13	01/16/13	10	0.6100	2.48	ND		mg/Kg	413483	7587
2-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3845	2.48	ND		mg/Kg	413483	7587
1-Methylnaphthalene	8270CSIM	1/16/13	01/16/13	10	0.3770	2.48	ND		mg/Kg	413483	7587
Acenaphthylene	8270CSIM	1/16/13	01/16/13	10	0.4135	2.48	ND		mg/Kg	413483	7587
Acenaphthene	8270CSIM	1/16/13	01/16/13	10	0.4220	2.48	ND		mg/Kg	413483	7587
Fluorene	8270CSIM	1/16/13	01/16/13	10	0.4800	2.48	ND		mg/Kg	413483	7587
Phenanthrene	8270CSIM	1/16/13	01/16/13	10	0.4855	2.48	ND		mg/Kg	413483	7587
Anthracene	8270CSIM	1/16/13	01/16/13	10	0.4840	2.48	ND		mg/Kg	413483	7587
Fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.4835	2.48	ND		mg/Kg	413483	7587
Pyrene	8270CSIM	1/16/13	01/16/13	10	0.6200	2.48	ND		mg/Kg	413483	7587
Benz[a]anthracene	8270CSIM	1/16/13	01/16/13	10	0.3605	2.48	ND		mg/Kg	413483	7587
Chrysene	8270CSIM	1/16/13	01/16/13	10	0.3275	4.98	ND		mg/Kg	413483	7587
Benzo[b]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.2415	2.48	ND		mg/Kg	413483	7587
Benzo[k]fluoranthene	8270CSIM	1/16/13	01/16/13	10	0.3920	2.48	ND		mg/Kg	413483	7587
Benzo[a]pyrene	8270CSIM	1/16/13	01/16/13	10	0.3660	2.48	ND		mg/Kg	413483	7587
Indeno[1,2,3-cd]pyrene	8270CSIM	1/16/13	01/16/13	10	0.5400	2.48	ND		mg/Kg	413483	7587
Dibenz[a,h]anthracene	8270CSIM	1/16/13	01/16/13	10	0.5200	2.48	ND		mg/Kg	413483	7587
Benzo[g,h,i]perylene	8270CSIM	1/16/13	01/16/13	10	0.5600	2.48	ND		mg/Kg	413483	7587
2-Fluorobiphenyl (S)	8270CSIM	1/16/13	01/16/13	10	25	91.6	30.8		%	413483	7587
p-Terphenyl-d14 (S)	8270CSIM	1/16/13	01/16/13	10	24.3	129	39.6		%	413483	7587

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



### MB Summary Report

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/14/13	<b>Prep Batch:</b>	7558
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/14/13	<b>Analytical Batch:</b>	413438
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	0.24	
Arsenic	0.25	1.7	ND	
Barium	0.07	5.0	0.72	
Beryllium	0.0800	2.0	0.11	
Cadmium	0.055	1.0	0.12	
Chromium	0.050	5.0	0.19	
Cobalt	0.055	5.0	0.15	
Copper	0.65	5.0	ND	
Lead	0.14	1.0	0.28	
Molybdenum	0.12	5.0	0.18	
Nickel	0.050	5.0	0.21	
Selenium	0.42	5.0	ND	
Silver	0.37	1.0	ND	
Thallium	0.49	5.0	ND	
Vanadium	0.18	5.0	0.18	
Zinc	0.25	5.0	0.32	

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/14/13	<b>Prep Batch:</b>	7563
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/15/13	<b>Analytical Batch:</b>	413447
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	



## MB Summary Report

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/16/13	<b>Prep Batch:</b>	7587
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/16/13	<b>Analytical Batch:</b>	413483
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Naphthalene	0.01220	0.0495	ND		
2-Methylnaphthalene	0.007690	0.0495	ND		
1-Methylnaphthalene	0.007540	0.0495	ND		
Acenaphthylene	0.008270	0.0495	ND		
Acenaphthene	0.008440	0.0495	ND		
Fluorene	0.009600	0.0495	ND		
Phenanthrene	0.009710	0.0495	ND		
Anthracene	0.009680	0.0495	ND		
Fluoranthene	0.009670	0.0495	ND		
Pyrene	0.01240	0.0495	ND		
Benz[a]anthracene	0.007210	0.0495	ND		
Chrysene	0.006550	0.0995	ND		
Benzo[b]fluoranthene	0.004830	0.0495	ND		
Benzo[k]fluoranthene	0.007840	0.0495	ND		
Benzo[a]pyrene	0.007320	0.0495	ND		
Indeno[1,2,3-cd]pyrene	0.01080	0.0495	ND		
Dibenz[a,h]anthracene	0.01040	0.0495	ND		
Benzo[g,h,i]perylene	0.01120	0.0495	ND		
2-Fluorobiphenyl (S)			80.3		
p-Terphenyl-d14 (S)			129		



### MB Summary Report

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/18/13	<b>Prep Batch:</b>	7608
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/17/13	<b>Analytical Batch:</b>	413531
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.61	2.0	ND	
gamma-BHC	0.61	2.0	ND	
beta-BHC	0.56	2.0	ND	
delta-BHC	0.40	2.0	ND	
Heptachlor	0.79	2.0	ND	
Aldrin	0.81	2.0	ND	
Heptachlor epoxide	0.36	2.0	ND	
gamma-Chlordane	0.79	2.0	ND	
alpha-Chlordane	0.94	2.0	ND	
Endosulfan I	0.64	2.0	ND	
4,4'-DDE	0.51	2.0	ND	
Dieldrin	0.58	2.0	ND	
Endrin	0.86	2.0	ND	
4,4'-DDD	0.76	2.0	ND	
Endosulfan II	0.82	2.0	ND	
4,4'-DDT	0.67	2.0	ND	
Endrin aldehyde	0.46	2.0	ND	
Endosulfan sulfate	0.58	2.0	ND	
Methoxychlor	0.61	5.0	ND	
Endrin Ketone	0.58	2.0	ND	
Chlordane	10	20	ND	
Toxaphene	8.2	100	ND	
TCMX (S)			85.7	
DCBP (S)			88.1	

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	02/04/13	<b>Prep Batch:</b>	7769
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	02/05/13	<b>Analytical Batch:</b>	413799
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/14/13	<b>Prep Batch:</b>	7558
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/14/13	<b>Analytical Batch:</b>	413438
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	0.24	50	97.6	96.7	0.957	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	94.7	93.9	0.806	71 - 121	30	
Barium	0.07	5.0	0.72	50	101	98.4	2.57	70.2 - 130	30	
Beryllium	0.0800	2.0	0.11	50	96.6	95.7	0.292	73.3 - 115	30	
Cadmium	0.055	1.0	0.12	50	96.4	93.7	2.84	68.7 - 110	30	
Chromium	0.050	5.0	0.19	50	98.2	96.1	2.15	76 - 116	30	
Cobalt	0.055	5.0	0.15	50	97.0	95.2	1.84	57.4 - 122	30	
Copper	0.65	5.0	ND	50	102	97.9	4.12	74.8 - 119	30	
Lead	0.14	1.0	0.28	50	96.7	95.8	0.966	67.9 - 118	30	
Molybdenum	0.12	5.0	0.18	50	100	99.4	0.582	62.9 - 123	30	
Nickel	0.050	5.0	0.21	50	97.2	94.5	2.86	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	91.6	92.2	0.675	62 - 111	30	
Silver	0.37	1.0	ND	50	97.3	94.0	3.44	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	93.4	93.4	0.0428	39.2 - 125	30	
Vanadium	0.18	5.0	0.18	50	101	98.7	2.28	65.8 - 122	30	
Zinc	0.25	5.0	0.32	50	92.8	91.0	1.98	59.9 - 122	30	

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/14/13	<b>Prep Batch:</b>	7563
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/15/13	<b>Analytical Batch:</b>	413447
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	105	106	0.631	80.5 - 133	30	





## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/16/13	<b>Prep Batch:</b>	7587
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/16/13	<b>Analytical Batch:</b>	413483
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.008440	0.0495	ND	0.2500	86.7	82.3	5.27	11.9 - 106	30	
Pyrene	0.01240	0.0495	ND	0.2500	89.1	90.2	1.07	16.9 - 136	30	
2-Fluorobiphenyl (S)			ND	5	77.6	73.8		25 - 91.6		
p-Terphenyl-d14 (S)			ND	5	127	129		24.3 - 129		

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/18/13	<b>Prep Batch:</b>	7608
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/17/13	<b>Analytical Batch:</b>	413531
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	111	114	2.72	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	115	111	3.76	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	105	106	1.18	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	109	113	3.29	44 - 130	30	
Endrin	0.86	2.0	ND	20	119	121	1.15	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	128	131	2.31	52.8 - 134	30	
TCMX (S)			ND	350	84.3	86.8		52.5 - 139		
DCBP (S)			ND	350	88.1	89.1		50.2 - 139		

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	02/04/13	<b>Prep Batch:</b>	7769
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	02/05/13	<b>Analytical Batch:</b>	413799
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	107	108	0.622	80.5 - 133	30	



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301067	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/16/13	<b>Prep Batch:</b>	7587
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/16/13	<b>Analytical Batch:</b>	413483
<b>Spiked Sample:</b>	1301067-015A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.4220	2.48	0	0.25	15.8	1.60	1.26	11.9 - 106	30	S
Pyrene	0.6200	2.48	0	0.25	9.40	9.60	2.11	16.9 - 136	30	S
2-Fluorobiphenyl (S)				5	25.2	25.4		25 - 91.6		
p-Terphenyl-d14 (S)				5	46.4	44.0		24.3 - 129		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m3</b> , <b>mg.m3</b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301067

Date and Time Received: 1/11/2013 10:44

Received By: rk

Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: Client Drop Off

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes Temperature: 2 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a pH Adjusted by: n/a



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 2/11/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301067**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/11/2013  
**Time Received:** 10:44

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301067-001A	SP-5-1A @2 1/2-3	01/10/13 9:03	Soil	07/10/13			Composite	
1301067-002A	SP-5-1A @6-6 1/2	01/10/13 9:09	Soil	07/10/13			Composite	
1301067-003A	SP-5-1B @1 1/2-2	01/10/13 9:37	Soil	07/10/13			Composite	
1301067-004A	SP-5-1B @5-5 1/2	01/10/13 9:41	Soil	07/10/13			Composite	
1301067-005A	SP-5-1(A, B)	01/10/13	Soil	07/10/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCF	
<b>Sample Note:</b>		Composite: 4:1 Samples may have asphalt pieces.						
1301067-006A	SP-5-2A @4-4 1/2	01/10/13 10:04	Soil	07/10/13			Composite	
1301067-007A	SP-5-2A @7-7 1/2	01/10/13 10:10	Soil	07/10/13			Composite	
1301067-008A	SP-5-2B @2-2 1/2	01/10/13 13:53	Soil	07/10/13			Composite	
1301067-009A	SP-5-2B @5-5 1/2	01/10/13 14:01	Soil	07/10/13			Composite	
1301067-010A	SP-5-2(A, B)	01/10/13	Soil	07/10/13			S_7471BHG S_8270PAHSIM S_6010BCAM17 S_8081AOCF	
1301067-011A	SP-5-3A @3-3 1/2	01/10/13 10:41	Soil	07/10/13			Composite	
1301067-012A	SP-5-3A @6-6 1/2	01/10/13 10:47	Soil	07/10/13			Composite	
1301067-013A	SP-5-3B @4-4 1/2	01/10/13 13:22	Soil	07/10/13			Composite	
1301067-014A	SP-5-3B @9-9 1/2	01/10/13 13:30	Soil	07/10/13			Composite	
1301067-015A	SP-5-3(A,B)	01/10/13	Soil	07/10/13			Composite	



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 2/11/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301067**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/11/2013  
**Time Received:** 10:44

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							S_7471BHG S_6010BCAM17 S_8081AOCP S_8270PAHSIM	
1301067-016A	SP-5-4A @2-2 1/2	01/10/13 11:17	Soil	07/10/13			Composite	
1301067-017A	SP-5-4A @7-7 1/2	01/10/13 11:24	Soil	07/10/13			Composite	
1301067-018A	SP-5-4B @4-4 1/2	01/10/13 11:54	Soil	07/10/13			Composite	
1301067-019A	SP-5-4B @8-8 1/2	01/10/13 12:01	Soil	07/10/13			Composite	
1301067-020A	SP-5-4(A,B)	01/10/13	Soil	07/10/13			Composite	
							S_7471BHG S_8081AOCP S_8270PAHSIM S_6010BCAM17	
1301067-021A	SP-6-1A @6-6 1/2	01/10/13 14:32	Soil	07/10/13			S_7471BHG Composite	
1301067-022A	SP-6-1B @12-12 1/2	01/10/13 15:24	Soil	07/10/13			S_7471BHG Composite	
1301067-023A	SP-6-1C @9-9 1/2	01/10/13 15:54	Soil	07/10/13			S_7471BHG Composite	
1301067-024A	SP-6-1D @3-3 1/2	01/10/13 16:10	Soil	07/10/13			S_7471BHG Composite	
1301067-025A	SP-6(A,B,C,D)	01/10/13	Soil	07/10/13			S_7471BHG S_8270PAHSIM S_8081AOCP S_6010BCAM17	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

• NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY •

LAB WORK ORDER NO  
 1301067

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4pt Composite  
 Telephone: \_\_\_\_\_ FAX: \_\_\_\_\_ Asphalt in Samples -  
 REPORT TO: Tim McCloskey/Chris Vertin SAMPLER: Chris Vertin P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:  Storm Water  Air  QC Level IV  
 Waste Water  Other  EDF  
 Ground Water  Excel / EDD  
 Soil

REPORT FORMAT:  Metals - CAM17  
 DCB (8081)  
 Sewer Vocs (51A)

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
001A		SP-5-1A e 2 1/2-3	1-10-13 9:03	Soil	1	4oz glass jar	} - 005A 4pt Composite
002A		SP-5-1A e 6-6 1/2	9:09				
003A		SP-5-1B e 1 1/2-2'	9:37				
004A		SP-5-1B e 5-5 1/2	9:41				} - 010A 4pt Composite
006A		SP-5-2A e 4-4 1/2	10:04				
007A		SP-5-2A e 7-7 1/2	10:10				
008A		SP-5-2B e 2-2 1/2	13:53				
009A		SP-5-2B e 5-5 1/2	14:01				

Relinquished By: Chris Vertin Print: \_\_\_\_\_ Date: 1/11/13 Time: 10:44  
 Received By: [Signature] Print: \_\_\_\_\_ Date: 1/11/13 Time: 10:44 AM  
 Relinquished By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: Drop Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 2 °C Page 1 of 3  
 Log In By: [Signature] Date: 1/11/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com



### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301067

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4pt Composite  
 Telephone: 925.786.2667 FAX: \_\_\_\_\_ Asphalt in Samples -  
 REPORT TO: Tim McCloskey/Chris Vertin SAMPLER: Chris Vertin P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:

- 10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:

- Storm Water  Air  
 Waste Water  Other  
 Ground Water  Soil

REPORT FORMAT:

- QC Level IV  
 EDF  
 Excel / EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
011A		SP-5-3Ae3-3 1/2	1-10-13 10:41	Soil	1	4oz glass jar	} - 015A } 4pt Composite
012A		SP-5-3Ae6-6 1/2	10:47				
013A		SP-5-3Be4-4 1/2	13:22				
014A		SP-5-3Be9-9 1/2	13:30				
016A		SP-5-4Ae2-2 1/2	11:17				} - 020A } 4pt Composite
017A		SP-5-4Ae7-7 1/2	11:24				
018A		SP-5-4Be4-4 1/2	11:54				
019A		SP-5-4Be8-8 1/2	12:01				

TORRENT LAB

1 Relinquished By: Chris Vertin Print: Christopher Vertin Date: 1/11/13 Time: 10:44 Received By: [Signature] Print: \_\_\_\_\_ Date: 1/11/13 Time: 10:44  
 2 Relinquished By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_ Received By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D10 Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples ( ) are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 2 °C Page 2 of 3  
 Log In By: [Signature] Date: 1/11/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_





483 Sinclair Frontage Road  
Milpitas, CA 95035  
Phone: 408.263.5258  
FAX: 408.263.8293  
www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301067

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

Company Name: MCF-McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill

Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling

City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4pt composite

Telephone: 925.895.6628 FAX: \_\_\_\_\_ Samples may have asphalt pieces

REPORT TO: Tom McCloskey / Chris Vertin SAMPLER: Chris Vertin P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  7 Work Days  3 Work Days  Noon - Nxt Day  5 Work Days  2 Work Days  2-8 Hours

SAMPLE TYPE:  Storm Water  Air  Waste Water  Other  Ground Water  Soil

REPORT FORMAT:  QC Level IV  EDF  Excel / EDD

Vertical text: On M17 - Metals  
DCPs (8081)  
Soil - VOC (514)

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
021A		SP-6-1Ae66 1/2	1-10-13 14:32	Soil	1	4oz glass jar	} -025A } 4pt Composite
022A		SP-6-1B 92-12 1/2	15:24				
023A		SP-6-1C 9 9 1/2	15:54				
024A		SP-6-1D 3-3 1/2	16:10				
		<del>SP-6-2Ae</del>					
		<del>SP-6-2B</del>					
		<del>SP-6-2C</del>					
		<del>SP-6-2D</del>					

Relinquished By: [Signature] Print: Christopher Vertin Date: 1/11/13 Time: 10:44

Received By: [Signature] Print: \_\_\_\_\_ Date: 1/11/13 Time: 10:44 am

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D70 Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 2 °C Page 3 of 3

Log In By: [Signature] Date: 1/11/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



**Change Order**

**Work Order:** 1301067

**Serial #:** CO13-0023

**Print Date:** 2/4/2013

**Project Name:** Comm Hill

**Client:** McCloskey Consultants

**Requested By:** Christopher Vertin

	<u>Requested Date</u>	<u>Requested Time</u>	<u>Extended Price</u>
Additional Test Hg analysis on 1301067-021A, 022A, 023A, 024A on 5day TAT	2/4/2013	12:41:00PM	



2/4/13

Torrent Laboratory, Inc. Mail - Re: Comm Hill-1301067



torrent@torrentlab.com

**Re: Comm Hill-1301067**

**Christopher Vertin** <chris@cvenvironmental.com>  
To: "Torrent Laboratory, Inc." <pm@torrentlaboratory.com>  
Cc: tom mccluskey <tom@mccluskeyconsultants.com>

Mon, Feb 4, 2013 at 12:41 PM

Dear PM Team,

We need to analyze the discrete samples for SP-6-1 in WO 1301067

- SP-6-1A
- SP-6-1B
- SP-6-1C
- SP-6-1D

The samples need analyzed for Mercury on a 5 Day TAT

Thank you.

Sincerely,

Christopher Vertin

chris@cvenvironmental.com  
925.895.6628

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On Jan 18, 2013, at 11:36 PM, Torrent Laboratory, Inc. wrote:

Hi Tom and Chris,

Attached is the report for the samples received 1/11/13. Have a great weeked!!

Patti

=

Janice Winn-Shilling x206 and Karin Bernstein x204, x209

Torrent's Project Management Team  
(408) 263-5258 ext 204, 206, 209  
pm@torrentlaboratory.com

483 Sinclair Frontage Rd  
Milpitas, CA 95035  
www.torrentlaboratory.com

The contents of this message are confidential and are bound by law from disclosure, tampering, or any other use by a third party.

If you are not the intended recipient of this message and its contents, please contact us immediately at (408) 263-5258 and delete the message and its contents.

<https://mail.google.com/mail/c/u/0/?ui=2&ik=e890e5e2a7&view=pt&search=inbox&th=13ca6f16fbc9a5f1>

1/2



Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301146

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 7 sample(s) on January 21, 2013 for the analyses presented in the following Report.

Seven samples received and two placed on hold per CoC instructions.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

---

Patti Sandrock  
QA Officer

January 29, 2013

---

Date

**Date:** 1/29/2013

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**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301146

## **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Analytical Comments for method 6010B 1301146-001 MS/MSD, Note:The % recoveries for Chromium are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.

The spikes in the MS/MSD for Nickel are not recoverable. The sample concentration is greater than 4X the spike concentration. No corrective action is required.

Analytical Comments for method S\_7471B 1301146-006 MS/MSD, Note:The % recoveries for Mercury are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



### Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/29/13

TP-26 @ 0.5-1

1301146-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	120	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	180	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	22	mg/Kg
Copper	SW6010B	1	0.650	5.0	30	mg/Kg
Lead	SW6010B	1	0.14	1.0	6.5	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	330	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	34	mg/Kg
Zinc	SW6010B	1	0.25	5.0	46	mg/Kg

TP-27 @ 0.5-1

1301146-002

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	220	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	200	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	28	mg/Kg
Copper	SW6010B	1	0.650	5.0	36	mg/Kg
Lead	SW6010B	1	0.14	1.0	7.4	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	430	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	37	mg/Kg
Zinc	SW6010B	1	0.25	5.0	48	mg/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13  
1301146-003

TP-28 @ 0-0.5

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.25	1.7	2.2	mg/Kg
Barium	SW6010B	1	0.07	5.0	150	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	50	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	12	mg/Kg
Copper	SW6010B	1	0.650	5.0	26	mg/Kg
Lead	SW6010B	1	0.14	1.0	14	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	87	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	34	mg/Kg
Zinc	SW6010B	1	0.25	5.0	49	mg/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	13	ug/Kg
4,4'-DDD	SW8081A	4	3.0	8.0	7.5	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	10	ug/Kg

TP-29 @ 2-2 1/2

1301146-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	160	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	70	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	27	mg/Kg
Lead	SW6010B	1	0.14	1.0	12	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	120	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	42	mg/Kg
Zinc	SW6010B	1	0.25	5.0	53	mg/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	41	ug/Kg
4,4'-DDD	SW8081A	4	3.0	8.0	4.5	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	18	ug/Kg

EB-6 @ 5.5-6

1301146-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
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All compounds were non-detectable for this sample.



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	TP-26 @ 0.5-1	<b>Lab Sample ID:</b>	1301146-001A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 13:56		
<b>Tag Number:</b>	TP-24 @ 1 1/2-2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	120		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	180		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	22		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	30		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	6.5		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	330		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	34		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	46		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	ND		mg/Kg	413619	7673





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	TP-26 @ 0.5-1	<b>Lab Sample ID:</b>	1301146-001A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 13:56		
<b>Tag Number:</b>	TP-24 @ 1 1/2-2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	1/28/13	01/28/13	1	0.61	2.0	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	1	0.61	2.0	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	1	0.56	2.0	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	1	0.40	2.0	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	1	0.79	2.0	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	1	0.81	2.0	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	1	0.36	2.0	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	1	0.79	2.0	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	1	0.94	2.0	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	1	0.64	2.0	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	1	0.51	2.0	ND		ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	1	0.58	2.0	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	1	0.86	2.0	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	1	0.76	2.0	ND		ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	1	0.82	2.0	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	1	0.67	2.0	ND		ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	1	0.46	2.0	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	1	0.58	2.0	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	1	0.61	5.0	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	1	0.58	2.0	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	1	10	20	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	1	8.2	100	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	1	52.5	139	66.3		%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	1	50.2	139	64.0		%	413722	7721



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	TP-27 @ 0.5-1	<b>Lab Sample ID:</b>	1301146-002A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 14:30		
<b>Tag Number:</b>	TP-24 @ 1 1/2-2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	220		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	200		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	28		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	36		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	7.4		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	430		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	37		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	48		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	ND		mg/Kg	413619	7673



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	TP-27 @ 0.5-1	<b>Lab Sample ID:</b>	1301146-002A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 14:30		
<b>Tag Number:</b>	TP-24 @ 1 1/2-2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	1/28/13	01/28/13	1	0.61	2.0	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	1	0.61	2.0	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	1	0.56	2.0	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	1	0.40	2.0	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	1	0.79	2.0	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	1	0.81	2.0	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	1	0.36	2.0	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	1	0.79	2.0	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	1	0.94	2.0	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	1	0.64	2.0	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	1	0.51	2.0	ND		ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	1	0.58	2.0	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	1	0.86	2.0	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	1	0.76	2.0	ND		ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	1	0.82	2.0	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	1	0.67	2.0	ND		ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	1	0.46	2.0	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	1	0.58	2.0	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	1	0.61	5.0	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	1	0.58	2.0	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	1	10	20	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	1	8.2	100	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	1	52.5	139	67.1		%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	1	50.2	139	66.8		%	413722	7721



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	TP-28 @ 0-0.5	<b>Lab Sample ID:</b>	1301146-003A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 15:17		
<b>Tag Number:</b>	TP-24 @ 1 1/2-2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	2.2		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	150		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	50		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	12		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	26		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	14		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	87		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	34		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	49		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	ND		mg/Kg	413619	7673



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	TP-28 @ 0-0.5	Lab Sample ID:	1301146-003A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/16/13 / 15:17		
Tag Number:	TP-24 @ 1 1/2-2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/28/13	01/28/13	4	2.4	8.0	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	4	2.5	8.0	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	4	1.6	8.0	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	4	3.2	8.0	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	4	3.2	8.0	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	4	1.4	8.0	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	4	3.2	8.0	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	4	3.8	8.0	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	4	2.6	8.0	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	4	2.0	8.0	13		ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	4	3.4	8.0	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	4	3.0	8.0	7.5	J	ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	4	3.3	8.0	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	4	2.7	8.0	10		ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	4	1.8	8.0	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	4	2.5	20	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	4	41	80	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	4	33	400	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	4	52.5	139	71.1		%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	4	50.2	139	68.2		%	413722	7721

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	TP-29 @ 2-2 1/2	<b>Lab Sample ID:</b>	1301146-004A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 15:44		
<b>Tag Number:</b>	TP-29 @ 2-2 1/2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	160		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	70		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	13		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	27		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	12		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	120		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	42		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	53		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	ND		mg/Kg	413619	7673



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	TP-29 @ 2-2 1/2	Lab Sample ID:	1301146-004A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/16/13 / 15:44		
Tag Number:	TP-29 @ 2-2 1/2		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/28/13	01/28/13	4	2.4	8.0	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	4	2.5	8.0	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	4	1.6	8.0	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	4	3.2	8.0	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	4	3.2	8.0	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	4	1.4	8.0	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	4	3.2	8.0	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	4	3.8	8.0	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	4	2.6	8.0	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	4	2.0	8.0	41		ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	4	3.4	8.0	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	4	3.0	8.0	4.5	J	ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	4	3.3	8.0	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	4	2.7	8.0	18		ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	4	1.8	8.0	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	4	2.5	20	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	4	2.3	8.0	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	4	41	80	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	4	33	400	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	4	52.5	139	66.6		%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	4	50.2	139	62.1		%	413722	7721

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



### SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	EB-6 @ 5.5-6	<b>Lab Sample ID:</b>	1301146-006A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 10:52		
<b>Tag Number:</b>	EB-6 @ 5.5-6		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/24/13	01/25/13	1	0.2	0.50	ND		mg/Kg	413660	7701





### MB Summary Report

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7673
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/24/13	<b>Analytical Batch:</b>	413619
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Mercury 0.2 0.50 ND

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7675
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413622
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Antimony	0.20	5.0	ND
Arsenic	0.25	1.7	ND
Barium	0.07	5.0	0.88
Beryllium	0.0800	2.0	ND
Cadmium	0.055	1.0	0.075
Chromium	0.050	5.0	0.27
Cobalt	0.055	5.0	0.11
Copper	0.65	5.0	0.81
Lead	0.14	1.0	0.41
Molybdenum	0.12	5.0	0.15
Nickel	0.050	5.0	0.23
Selenium	0.42	5.0	ND
Silver	0.37	1.0	ND
Thallium	0.49	5.0	ND
Vanadium	0.18	5.0	0.20
Zinc	0.25	5.0	0.51

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/24/13	<b>Prep Batch:</b>	7701
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/25/13	<b>Analytical Batch:</b>	413660
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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Mercury 0.2 0.50 ND



## MB Summary Report

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/28/13	<b>Prep Batch:</b>	7721
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/28/13	<b>Analytical Batch:</b>	413722
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
alpha-BHC	0.61	2.0	ND		
gamma-BHC	0.61	2.0	ND		
beta-BHC	0.56	2.0	ND		
delta-BHC	0.40	2.0	ND		
Heptachlor	0.79	2.0	ND		
Aldrin	0.81	2.0	ND		
Heptachlor epoxide	0.36	2.0	ND		
gamma-Chlordane	0.79	2.0	ND		
alpha-Chlordane	0.94	2.0	ND		
Endosulfan I	0.64	2.0	ND		
4,4'-DDE	0.51	2.0	ND		
Dieldrin	0.58	2.0	ND		
Endrin	0.86	2.0	ND		
4,4'-DDD	0.76	2.0	ND		
Endosulfan II	0.82	2.0	ND		
4,4'-DDT	0.67	2.0	ND		
Endrin aldehyde	0.46	2.0	ND		
Endosulfan sulfate	0.58	2.0	ND		
Methoxychlor	0.61	5.0	ND		
Endrin Ketone	0.58	2.0	ND		
Chlordane	10	20	ND		
Toxaphene	8.2	100	ND		
TCMX (S)			71.8		
DCBP (S)			73.8		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7673
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/24/13	<b>Analytical Batch:</b>	413619
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	84.7	81.5	3.93	80.5 - 133	30	

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7675
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413622
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	93.4	94.8	1.45	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	91.7	93.3	1.69	71 - 121	30	
Barium	0.07	5.0	0.88	50	96.0	100	4.18	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	91.5	92.4	1.54	73.3 - 115	30	
Cadmium	0.055	1.0	0.075	50	91.5	95.4	4.14	68.7 - 110	30	
Chromium	0.050	5.0	0.27	50	95.0	99.1	4.26	76 - 116	30	
Cobalt	0.055	5.0	0.11	50	93.7	97.4	3.90	57.4 - 122	30	
Copper	0.65	5.0	0.81	50	96.3	100	4.07	74.8 - 119	30	
Lead	0.14	1.0	0.41	50	92.9	94.4	1.61	67.9 - 118	30	
Molybdenum	0.12	5.0	0.15	50	96.6	98.4	1.81	62.9 - 123	30	
Nickel	0.050	5.0	0.23	50	92.1	96.1	4.28	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	86.6	88.0	1.59	62 - 111	30	
Silver	0.37	1.0	ND	50	93.0	96.7	3.87	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	91.8	93.0	1.33	39.2 - 125	30	
Vanadium	0.18	5.0	0.20	50	96.4	101	4.46	65.8 - 122	30	
Zinc	0.25	5.0	0.51	50	87.6	91.9	4.79	59.9 - 122	30	

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/24/13	<b>Prep Batch:</b>	7701
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/25/13	<b>Analytical Batch:</b>	413660
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	106	105	0.887	80.5 - 133	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/28/13	<b>Prep Batch:</b>	7721
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/28/13	<b>Analytical Batch:</b>	413722
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	87.2	78.8	10.1	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	89.2	80.9	9.76	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	84.5	75.7	10.9	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	84.0	74.7	11.8	44 - 130	30	
Endrin	0.86	2.0	ND	20	87.0	79.4	9.14	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	88.6	82.1	7.59	52.8 - 134	30	
TCMX (S)			ND	350	73.4	66.4		52.5 - 139		
DCBP (S)			ND	350	74.7	67.8		50.2 - 139		



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7673
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/24/13	<b>Analytical Batch:</b>	413619
<b>Spiked Sample:</b>	1301146-001A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	0.00049	1.25	82.5	80.2	2.68	60 - 140	30	

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7675
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413622
<b>Spiked Sample:</b>	1301146-001A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	0.00	50	65.2	64.8	0.693	30.7 - 130	30	
Arsenic	0.25	1.7	0.00	50	78.2	81.7	4.38	71 - 121	30	
Barium	0.07	5.0	2.4	50	111	96.3	4.28	70.2 - 130	30	
Beryllium	0.0800	2.0	0.00	50	80.4	83.5	4.25	73.3 - 115	30	
Cadmium	0.055	1.0	0.00	50	83.0	86.1	3.70	68.7 - 110	30	
Chromium	0.050	5.0	3.6	50	56.9	62.8	1.38	76 - 116	30	S
Cobalt	0.055	5.0	0.44	50	77.8	85.0	5.58	57.4 - 122	30	
Copper	0.65	5.0	0.61	50	85.6	96.4	6.83	74.8 - 119	30	
Lead	0.14	1.0	0.13	50	74.6	78.9	4.81	67.9 - 118	30	
Molybdenum	0.12	5.0	0.00	50	77.7	80.0	2.95	62.9 - 123	30	
Nickel	0.050	5.0	6.7	50	0.000	0.000	5.13	61.5 - 122	30	NR
Selenium	0.42	5.0	0.00	50	74.7	75.0	0.414	62 - 111	30	
Silver	0.37	1.0	0.00	50	87.9	90.6	3.00	81.1 - 109	30	
Thallium	0.49	5.0	0.00	50	71.3	74.3	4.13	39.2 - 125	30	
Vanadium	0.18	5.0	0.69	50	81.4	89.7	5.64	65.8 - 122	30	
Zinc	0.25	5.0	0.91	50	65.3	74.6	5.97	59.9 - 122	30	

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/24/13	<b>Prep Batch:</b>	7701
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/25/13	<b>Analytical Batch:</b>	413660
<b>Spiked Sample:</b>	1301146-006A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	0.00148	1.25	61.1	48.9	18.8	60 - 140	30	S



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301146	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/28/13	<b>Prep Batch:</b>	7721
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/28/13	<b>Analytical Batch:</b>	413722
<b>Spiked Sample:</b>	1301146-001A						
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Aldrin	0.81	2.0	0	20	76.5	74.2	2.99	53 - 123	30	
gamma-BHC	0.61	2.0	0	20	80.9	79.1	2.20	56.9 - 120	30	
Heptachlor	0.79	2.0	0	20	81.3	80.1	1.59	63.6 - 117	30	
Dieldrin	0.58	2.0	0	20	75.9	74.2	2.36	44 - 130	30	
Endrin	0.86	2.0	0	20	78.6	77.8	1.08	44.1 - 121	30	
4,4'-DDT	0.67	2.0	0	20	92.0	90.0	2.17	52.8 - 134	30	
TCMX (S)				350	68.4	66.6		52.5 - 139	,"	
DCBP (S)				350	64.4	62.0		50.2 - 139	,"	



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301146

Date and Time Received: 1/21/2013 15:47

Received By: ng

Physically Logged By: lorna

Checklist Completed By: lorna

Carrier Name: Torrent Courier

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes      Temperature: 3 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a      pH Adjusted by: n/a





## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants

**QC Level:**

**Project Name:** Comm Hill

**TAT Requested:** 5+ day:0

**Project # :**

**Date Received:** 1/21/2013

**Report Due Date:** 1/28/2013

**Time Received:** 15:47

**Comments:** 5 DAY TAT. Please send report to both Tom McCloskey and Chris Vertin.

**Work Order # :** **1301146**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301146-001A	TP-26 @ 0.5-1	01/16/13 13:56	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC S_8081AOC	
1301146-002A	TP-27 @ 0.5-1	01/16/13 14:30	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC S_8081AOC	
1301146-003A	TP-28 @ 0-0.5	01/16/13 15:17	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301146-004A	TP-29 @ 2-2 1/2	01/16/13 15:44	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301146-005A	TP-13 @ 3-3 1/2	01/14/13 16:24	Soil	07/20/13				
1301146-006A	EB-6 @ 5.5-6	01/16/13 10:52	Soil	07/20/13			Hold Samples	
1301146-007A	EB-6 @7.5-8	01/16/13 11:00	Soil	07/20/13			S_7471BHG	
							Hold Samples	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

1301146

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Fill Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments:  
 Telephone: 925.786.2667 FAX:  
 REPORT TO: Tom McCloskey / Chris Vertin SAMPLER: Chris Vertin P.O. #: EMAIL:

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:  Storm Water  Air  QC Level IV  
 Waste Water  Other  EDF  
 Ground Water  Excel / EDD  
 Soil

REPORT FORMAT: Metals - Cam 17  
OCPs (8081)  
Mercury - Metal

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
021A	001A	TP-26 @ 0.5-1'	1/16/13 13:56	Soil	1	glass jar	X X
022A	002A	TP-27 @ 0.5-1'	1/16/13 14:30				X X
023A	003A	TP-28 @ 0-0.5'	15:17				X X
024A	004A	TP-29 @ 2-2.5'	15:44				X X
025A	005A	TP-13 @ 3-3.5'	1/14/13 16:24				Hold
026A	006A	EB-6 @ 5.5-6'	1/16/13 10:52	Soil	1	glass jar	X
027A	007A	EB-6 @ 7.5-8'	1 11:00				Hold

TORRENT LAB

Relinquished By: Chris Vertin Print: Christopher Vertin Date: 1/21/13 Time: 15:47  
 Received By: Shobhita Desai Print: SHOBHITA DESAI Date: 1-21-13 Time: 15:47

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: Torrent plus Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 3 °C Page 3 of 3  
 Log In By: [Signature] Date: 1-21-13 Log In Reviewed By: Date:



Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301147 Rev: 1

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 12 sample(s) on January 21, 2013 for the analyses presented in the following Report.

Samples received and composited

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

A handwritten signature in blue ink, appearing to read "Janice Winn-Shilling", is written over a light blue rectangular background.

---

Janice Winn-Shilling  
Sr. Project Manager

January 29, 2013

---

Date



**Date:** 1/29/2013

---

**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301147

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

#### **REVISIONS:**

Report revised to include Hg on 4 samples.

Rev 1 (2/11/13)



### Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/29/13

Comp.SP-6 2(A-D)

1301147-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	110	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	180	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	19	mg/Kg
Copper	SW6010B	1	0.650	5.0	28	mg/Kg
Lead	SW6010B	1	0.14	1.0	11	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	230	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	40	mg/Kg
Zinc	SW6010B	1	0.25	5.0	42	mg/Kg
Mercury	SW7471A	1	0.2	0.50	6.6	mg/Kg
4,4'-DDE	SW8081A	30	15	60	33	ug/Kg
4,4'-DDD	SW8081A	30	23	60	35	ug/Kg
4,4'-DDT	SW8081A	30	20	60	54	ug/Kg

Comp.SP-6 -3(A-D)

1301147-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	200	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	54	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	30	mg/Kg
Lead	SW6010B	1	0.14	1.0	9.8	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	83	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	41	mg/Kg
Zinc	SW6010B	1	0.25	5.0	48	mg/Kg
4,4'-DDE	SW8081A	10	5.1	20	8.7	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	20	ug/Kg



### Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13  
1301147-015

Comp.SP-6-4(A-D)

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	130	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	63	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	16	mg/Kg
Copper	SW6010B	1	0.650	5.0	27	mg/Kg
Lead	SW6010B	1	0.14	1.0	6.9	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	99	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	46	mg/Kg
Zinc	SW6010B	1	0.25	5.0	47	mg/Kg
4,4'-DDE	SW8081A	30	15	60	24	ug/Kg



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	Comp.SP-6 2(A-D)	Lab Sample ID:	1301147-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	110		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	180		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	19		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	28		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	11		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	230		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	40		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	42		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	6.6		mg/Kg	413619	7673



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	Comp.SP-6 2(A-D)	Lab Sample ID:	1301147-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/28/13	01/28/13	30	18	60	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	30	18	60	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	30	12	60	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	30	24	60	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	30	24	60	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	30	11	60	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	30	24	60	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	30	28	60	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	30	19	60	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	30	15	60	33	J	ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	30	26	60	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	30	23	60	35	J	ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	30	25	60	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	30	20	60	54	J	ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	30	14	60	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	30	18	150	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	30	310	600	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	30	250	3000	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	30	52.5	139	0.000	D	%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	30	50.2	139	0.000	D	%	413722	7721

**NOTE:** Reporting limits increased due to necessary dilution of the sample (viscous/dark color extract)





## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	Comp.SP-6 2(A-D)	Lab Sample ID:	1301147-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/23/13	01/23/13	20	0.2440	0.990	ND		mg/Kg	413606	7665
2-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	20	0.1538	0.990	ND		mg/Kg	413606	7665
1-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	20	0.1508	0.990	ND		mg/Kg	413606	7665
Acenaphthylene	8270CSIM	1/23/13	01/23/13	20	0.1654	0.990	ND		mg/Kg	413606	7665
Acenaphthene	8270CSIM	1/23/13	01/23/13	20	0.1688	0.990	ND		mg/Kg	413606	7665
Fluorene	8270CSIM	1/23/13	01/23/13	20	0.1920	0.990	ND		mg/Kg	413606	7665
Phenanthrene	8270CSIM	1/23/13	01/23/13	20	0.1942	0.990	ND		mg/Kg	413606	7665
Anthracene	8270CSIM	1/23/13	01/23/13	20	0.1936	0.990	ND		mg/Kg	413606	7665
Fluoranthene	8270CSIM	1/23/13	01/23/13	20	0.1934	0.990	ND		mg/Kg	413606	7665
Pyrene	8270CSIM	1/23/13	01/23/13	20	0.2480	0.990	ND		mg/Kg	413606	7665
Benz[a]anthracene	8270CSIM	1/23/13	01/23/13	20	0.1442	0.990	ND		mg/Kg	413606	7665
Chrysene	8270CSIM	1/23/13	01/23/13	20	0.1310	1.99	ND		mg/Kg	413606	7665
Benzo[b]fluoranthene	8270CSIM	1/23/13	01/23/13	20	0.09660	0.990	ND		mg/Kg	413606	7665
Benzo[k]fluoranthene	8270CSIM	1/23/13	01/23/13	20	0.1568	0.990	ND		mg/Kg	413606	7665
Benzo[a]pyrene	8270CSIM	1/23/13	01/23/13	20	0.1464	0.990	ND		mg/Kg	413606	7665
Indeno[1,2,3-cd]pyrene	8270CSIM	1/23/13	01/23/13	20	0.2160	0.990	ND		mg/Kg	413606	7665
Dibenz[a,h]anthracene	8270CSIM	1/23/13	01/23/13	20	0.2080	0.990	ND		mg/Kg	413606	7665
Benzo[g,h,i]perylene	8270CSIM	1/23/13	01/23/13	20	0.2240	0.990	ND		mg/Kg	413606	7665
2-Fluorobiphenyl (S)	8270CSIM	1/23/13	01/23/13	20	25	91.6	39.3		%	413606	7665
p-Terphenyl-d14 (S)	8270CSIM	1/23/13	01/23/13	20	24.3	129	95.7		%	413606	7665

**NOTE:** Reporting limits increased due to necessary dilution of the sample (viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	Comp.SP-6 -3(A-D)	Lab Sample ID:	1301147-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	200		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	54		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	13		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	30		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	9.8		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	83		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	41		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	48		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	ND		mg/Kg	413619	7673



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	Comp.SP-6 -3(A-D)	<b>Lab Sample ID:</b>	1301147-010A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/28/13	01/28/13	10	6.1	20	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	10	6.1	20	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	10	5.6	20	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	10	4.0	20	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	10	7.9	20	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	10	8.1	20	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	10	3.6	20	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	10	7.9	20	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	10	9.4	20	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	10	6.4	20	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	10	5.1	20	8.7	J	ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	10	5.8	20	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	10	8.6	20	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	10	7.6	20	ND		ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	10	8.2	20	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	10	6.7	20	20		ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	10	4.6	20	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	10	5.8	20	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	10	6.1	50	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	10	5.8	20	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	10	100	200	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	10	82	1000	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	10	52.5	139	57.7		%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	10	50.2	139	46.5	S	%	413722	7721

**NOTE:** Reporting limits increased due to necessary sample dilution (viscous/dark) extract., Low surrogate recovery due to matrix interference.



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	Comp.SP-6 -3(A-D)	Lab Sample ID:	1301147-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/23/13	01/23/13	10	0.1220	0.495	ND		mg/Kg	413606	7665
2-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	10	0.07690	0.495	ND		mg/Kg	413606	7665
1-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	10	0.07540	0.495	ND		mg/Kg	413606	7665
Acenaphthylene	8270CSIM	1/23/13	01/23/13	10	0.08270	0.495	ND		mg/Kg	413606	7665
Acenaphthene	8270CSIM	1/23/13	01/23/13	10	0.08440	0.495	ND		mg/Kg	413606	7665
Fluorene	8270CSIM	1/23/13	01/23/13	10	0.09600	0.495	ND		mg/Kg	413606	7665
Phenanthrene	8270CSIM	1/23/13	01/23/13	10	0.09710	0.495	ND		mg/Kg	413606	7665
Anthracene	8270CSIM	1/23/13	01/23/13	10	0.09680	0.495	ND		mg/Kg	413606	7665
Fluoranthene	8270CSIM	1/23/13	01/23/13	10	0.09670	0.495	ND		mg/Kg	413606	7665
Pyrene	8270CSIM	1/23/13	01/23/13	10	0.1240	0.495	ND		mg/Kg	413606	7665
Benz[a]anthracene	8270CSIM	1/23/13	01/23/13	10	0.07210	0.495	ND		mg/Kg	413606	7665
Chrysene	8270CSIM	1/23/13	01/23/13	10	0.06550	0.995	ND		mg/Kg	413606	7665
Benzo[b]fluoranthene	8270CSIM	1/23/13	01/23/13	10	0.04830	0.495	ND		mg/Kg	413606	7665
Benzo[k]fluoranthene	8270CSIM	1/23/13	01/23/13	10	0.07840	0.495	ND		mg/Kg	413606	7665
Benzo[a]pyrene	8270CSIM	1/23/13	01/23/13	10	0.07320	0.495	ND		mg/Kg	413606	7665
Indeno[1,2,3-cd]pyrene	8270CSIM	1/23/13	01/23/13	10	0.1080	0.495	ND		mg/Kg	413606	7665
Dibenz[a,h]anthracene	8270CSIM	1/23/13	01/23/13	10	0.1040	0.495	ND		mg/Kg	413606	7665
Benzo[g,h,i]perylene	8270CSIM	1/23/13	01/23/13	10	0.1120	0.495	ND		mg/Kg	413606	7665
2-Fluorobiphenyl (S)	8270CSIM	1/23/13	01/23/13	10	25	91.6	52.0		%	413606	7665
p-Terphenyl-d14 (S)	8270CSIM	1/23/13	01/23/13	10	24.3	129	104		%	413606	7665

**NOTE:** Reporting limits increased due to necessary dilution of the sample (dark, viscous extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

<b>Client Sample ID:</b>	Comp.SP-6-4(A-D)	<b>Lab Sample ID:</b>	1301147-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/23/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413622	7675
Arsenic	SW6010B	1/23/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413622	7675
Barium	SW6010B	1/23/13	01/23/13	1	0.07	5.0	130		mg/Kg	413622	7675
Beryllium	SW6010B	1/23/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413622	7675
Cadmium	SW6010B	1/23/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413622	7675
Chromium	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	63		mg/Kg	413622	7675
Cobalt	SW6010B	1/23/13	01/23/13	1	0.055	5.0	16		mg/Kg	413622	7675
Copper	SW6010B	1/23/13	01/23/13	1	0.650	5.0	27		mg/Kg	413622	7675
Lead	SW6010B	1/23/13	01/23/13	1	0.14	1.0	6.9		mg/Kg	413622	7675
Molybdenum	SW6010B	1/23/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413622	7675
Nickel	SW6010B	1/23/13	01/23/13	1	0.0500	5.0	99		mg/Kg	413622	7675
Selenium	SW6010B	1/23/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413622	7675
Silver	SW6010B	1/23/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413622	7675
Thallium	SW6010B	1/23/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413622	7675
Vanadium	SW6010B	1/23/13	01/23/13	1	0.18	5.0	46		mg/Kg	413622	7675
Zinc	SW6010B	1/23/13	01/23/13	1	0.25	5.0	47		mg/Kg	413622	7675

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/23/13	01/24/13	1	0.2	0.50	ND		mg/Kg	413619	7673



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/29/13

Client Sample ID:	Comp.SP-6-4(A-D)	Lab Sample ID:	1301147-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/28/13	01/28/13	30	18	60	ND		ug/Kg	413722	7721
gamma-BHC	SW8081A	1/28/13	01/28/13	30	18	60	ND		ug/Kg	413722	7721
beta-BHC	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
delta-BHC	SW8081A	1/28/13	01/28/13	30	12	60	ND		ug/Kg	413722	7721
Heptachlor	SW8081A	1/28/13	01/28/13	30	24	60	ND		ug/Kg	413722	7721
Aldrin	SW8081A	1/28/13	01/28/13	30	24	60	ND		ug/Kg	413722	7721
Heptachlor epoxide	SW8081A	1/28/13	01/28/13	30	11	60	ND		ug/Kg	413722	7721
gamma-Chlordane	SW8081A	1/28/13	01/28/13	30	24	60	ND		ug/Kg	413722	7721
alpha-Chlordane	SW8081A	1/28/13	01/28/13	30	28	60	ND		ug/Kg	413722	7721
Endosulfan I	SW8081A	1/28/13	01/28/13	30	19	60	ND		ug/Kg	413722	7721
4,4'-DDE	SW8081A	1/28/13	01/28/13	30	15	60	24	J	ug/Kg	413722	7721
Dieldrin	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
Endrin	SW8081A	1/28/13	01/28/13	30	26	60	ND		ug/Kg	413722	7721
4,4'-DDD	SW8081A	1/28/13	01/28/13	30	23	60	ND		ug/Kg	413722	7721
Endosulfan II	SW8081A	1/28/13	01/28/13	30	25	60	ND		ug/Kg	413722	7721
4,4'-DDT	SW8081A	1/28/13	01/28/13	30	20	60	ND		ug/Kg	413722	7721
Endrin aldehyde	SW8081A	1/28/13	01/28/13	30	14	60	ND		ug/Kg	413722	7721
Endosulfan sulfate	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
Methoxychlor	SW8081A	1/28/13	01/28/13	30	18	150	ND		ug/Kg	413722	7721
Endrin Ketone	SW8081A	1/28/13	01/28/13	30	17	60	ND		ug/Kg	413722	7721
Chlordane	SW8081A	1/28/13	01/28/13	30	310	600	ND		ug/Kg	413722	7721
Toxaphene	SW8081A	1/28/13	01/28/13	30	250	3000	ND		ug/Kg	413722	7721
TCMX (S)	SW8081A	1/28/13	01/28/13	30	52.5	139	0.000	D	%	413722	7721
DCBP (S)	SW8081A	1/28/13	01/28/13	30	50.2	139	0.000	D	%	413722	7721

**NOTE:** Reporting limits increased due to necessary dilution of the sample (viscous/dark) extract. D-Surrogate diluted out.



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/29/13

<b>Client Sample ID:</b>	Comp.SP-6-4(A-D)	<b>Lab Sample ID:</b>	1301147-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/23/13	01/23/13	10	0.1220	0.495	ND		mg/Kg	413606	7665
2-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	10	0.07690	0.495	ND		mg/Kg	413606	7665
1-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	10	0.07540	0.495	ND		mg/Kg	413606	7665
Acenaphthylene	8270CSIM	1/23/13	01/23/13	10	0.08270	0.495	ND		mg/Kg	413606	7665
Acenaphthene	8270CSIM	1/23/13	01/23/13	10	0.08440	0.495	ND		mg/Kg	413606	7665
Fluorene	8270CSIM	1/23/13	01/23/13	10	0.09600	0.495	ND		mg/Kg	413606	7665
Phenanthrene	8270CSIM	1/23/13	01/23/13	10	0.09710	0.495	ND		mg/Kg	413606	7665
Anthracene	8270CSIM	1/23/13	01/23/13	10	0.09680	0.495	ND		mg/Kg	413606	7665
Fluoranthene	8270CSIM	1/23/13	01/23/13	10	0.09670	0.495	ND		mg/Kg	413606	7665
Pyrene	8270CSIM	1/23/13	01/23/13	10	0.1240	0.495	ND		mg/Kg	413606	7665
Benz[a]anthracene	8270CSIM	1/23/13	01/23/13	10	0.07210	0.495	ND		mg/Kg	413606	7665
Chrysene	8270CSIM	1/23/13	01/23/13	10	0.06550	0.995	ND		mg/Kg	413606	7665
Benzo[b]fluoranthene	8270CSIM	1/23/13	01/23/13	10	0.04830	0.495	ND		mg/Kg	413606	7665
Benzo[k]fluoranthene	8270CSIM	1/23/13	01/23/13	10	0.07840	0.495	ND		mg/Kg	413606	7665
Benzo[a]pyrene	8270CSIM	1/23/13	01/23/13	10	0.07320	0.495	ND		mg/Kg	413606	7665
Indeno[1,2,3-cd]pyrene	8270CSIM	1/23/13	01/23/13	10	0.1080	0.495	ND		mg/Kg	413606	7665
Dibenz[a,h]anthracene	8270CSIM	1/23/13	01/23/13	10	0.1040	0.495	ND		mg/Kg	413606	7665
Benzo[g,h,i]perylene	8270CSIM	1/23/13	01/23/13	10	0.1120	0.495	ND		mg/Kg	413606	7665
2-Fluorobiphenyl (S)	8270CSIM	1/23/13	01/23/13	10	25	91.6	51.4		%	413606	7665
p-Terphenyl-d14 (S)	8270CSIM	1/23/13	01/23/13	10	24.3	129	103		%	413606	7665

**NOTE:** Reporting limits increased to do necessary dilution of the sample (dark, viscous extract)



### MB Summary Report

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7665
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413606
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Naphthalene	0.01220	0.0495	ND	
2-Methylnaphthalene	0.007690	0.0495	ND	
1-Methylnaphthalene	0.007540	0.0495	ND	
Acenaphthylene	0.008270	0.0495	ND	
Acenaphthene	0.008440	0.0495	ND	
Fluorene	0.009600	0.0495	ND	
Phenanthrene	0.009710	0.0495	ND	
Anthracene	0.009680	0.0495	ND	
Fluoranthene	0.009670	0.0495	ND	
Pyrene	0.01240	0.0495	ND	
Benz[a]anthracene	0.007210	0.0495	ND	
Chrysene	0.006550	0.0995	ND	
Benzo[b]fluoranthene	0.004830	0.0495	ND	
Benzo[k]fluoranthene	0.007840	0.0495	ND	
Benzo[a]pyrene	0.007320	0.0495	ND	
Indeno[1,2,3-cd]pyrene	0.01080	0.0495	ND	
Dibenz[a,h]anthracene	0.01040	0.0495	ND	
Benzo[g,h,i]perylene	0.01120	0.0495	ND	
2-Fluorobiphenyl (S)			72.2	
p-Terphenyl-d14 (S)			129	

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7673
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/24/13	<b>Analytical Batch:</b>	413619
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	





### MB Summary Report

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7675
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413622
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.25	1.7	ND	
Barium	0.07	5.0	0.88	
Beryllium	0.0800	2.0	ND	
Cadmium	0.055	1.0	0.075	
Chromium	0.050	5.0	0.27	
Cobalt	0.055	5.0	0.11	
Copper	0.65	5.0	0.81	
Lead	0.14	1.0	0.41	
Molybdenum	0.12	5.0	0.15	
Nickel	0.050	5.0	0.23	
Selenium	0.42	5.0	ND	
Silver	0.37	1.0	ND	
Thallium	0.49	5.0	ND	
Vanadium	0.18	5.0	0.20	
Zinc	0.25	5.0	0.51	



### MB Summary Report

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/28/13	<b>Prep Batch:</b>	7721
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/28/13	<b>Analytical Batch:</b>	413722
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
alpha-BHC	0.61	2.0	ND		
gamma-BHC	0.61	2.0	ND		
beta-BHC	0.56	2.0	ND		
delta-BHC	0.40	2.0	ND		
Heptachlor	0.79	2.0	ND		
Aldrin	0.81	2.0	ND		
Heptachlor epoxide	0.36	2.0	ND		
gamma-Chlordane	0.79	2.0	ND		
alpha-Chlordane	0.94	2.0	ND		
Endosulfan I	0.64	2.0	ND		
4,4'-DDE	0.51	2.0	ND		
Dieldrin	0.58	2.0	ND		
Endrin	0.86	2.0	ND		
4,4'-DDD	0.76	2.0	ND		
Endosulfan II	0.82	2.0	ND		
4,4'-DDT	0.67	2.0	ND		
Endrin aldehyde	0.46	2.0	ND		
Endosulfan sulfate	0.58	2.0	ND		
Methoxychlor	0.61	5.0	ND		
Endrin Ketone	0.58	2.0	ND		
Chlordane	10	20	ND		
Toxaphene	8.2	100	ND		
TCMX (S)			71.8		
DCBP (S)			73.8		

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	02/04/13	<b>Prep Batch:</b>	7769
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	02/05/13	<b>Analytical Batch:</b>	413799
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Mercury	0.2	0.50	ND		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7665
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413606
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.008440	0.0495	ND	0.2500	83.2	82.7	0.622	11.9 - 106	30	
Pyrene	0.01240	0.0495	ND	0.2500	96.1	94.2	1.88	16.9 - 136	30	
2-Fluorobiphenyl (S)			ND	5	74.0	74.3		25 - 91.6		
p-Terphenyl-d14 (S)			ND	5	127	125		24.3 - 129		

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7673
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/24/13	<b>Analytical Batch:</b>	413619
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	84.7	81.5	3.93	80.5 - 133	30	

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7675
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413622
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	93.4	94.8	1.45	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	91.7	93.3	1.69	71 - 121	30	
Barium	0.07	5.0	0.88	50	96.0	100	4.18	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	91.5	92.4	1.54	73.3 - 115	30	
Cadmium	0.055	1.0	0.075	50	91.5	95.4	4.14	68.7 - 110	30	
Chromium	0.050	5.0	0.27	50	95.0	99.1	4.26	76 - 116	30	
Cobalt	0.055	5.0	0.11	50	93.7	97.4	3.90	57.4 - 122	30	
Copper	0.65	5.0	0.81	50	96.3	100	4.07	74.8 - 119	30	
Lead	0.14	1.0	0.41	50	92.9	94.4	1.61	67.9 - 118	30	
Molybdenum	0.12	5.0	0.15	50	96.6	98.4	1.81	62.9 - 123	30	
Nickel	0.050	5.0	0.23	50	92.1	96.1	4.28	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	86.6	88.0	1.59	62 - 111	30	
Silver	0.37	1.0	ND	50	93.0	96.7	3.87	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	91.8	93.0	1.33	39.2 - 125	30	
Vanadium	0.18	5.0	0.20	50	96.4	101	4.46	65.8 - 122	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7675
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413622
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Zinc	0.25	5.0	0.51	50	87.6	91.9	4.79	59.9 - 122	30	

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/28/13	<b>Prep Batch:</b>	7721
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/28/13	<b>Analytical Batch:</b>	413722
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	87.2	78.8	10.1	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	89.2	80.9	9.76	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	84.5	75.7	10.9	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	84.0	74.7	11.8	44 - 130	30	
Endrin	0.86	2.0	ND	20	87.0	79.4	9.14	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	88.6	82.1	7.59	52.8 - 134	30	
TCMX (S)			ND	350	73.4	66.4		52.5 - 139		
DCBP (S)			ND	350	74.7	67.8		50.2 - 139		

<b>Work Order:</b>	1301147	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	02/04/13	<b>Prep Batch:</b>	7769
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	02/05/13	<b>Analytical Batch:</b>	413799
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	107	108	0.622	80.5 - 133	30	



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m<sup>3</sup></b> , <b>mg.m<sup>3</sup></b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301147

Date and Time Received: 1/21/2013 15:47

Received By: ng

Physically Logged By: lorna

Checklist Completed By: lorna

Carrier Name: Torrent Courier

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes Temperature: 3 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a pH Adjusted by: n/a



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants

**QC Level:**

**Project Name:** Comm Hill

**TAT Requested:** 5+ day:0

**Project # :**

**Date Received:** 1/21/2013

**Report Due Date:** 2/11/2013

**Time Received:** 15:47

**Comments:** 5 day TAT!!! 4:1 pt composite.

Please send report to both Tom McCloskey and Chris Vertin.

**Work Order # :** 1301147

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301147-001A	SP-6 2A @ 3-3 1/2	01/14/13 10:14	Soil	07/20/13			S_7471BHG Composite	
1301147-002A	SP-6 2B @ 6-6 1/2	01/14/13 10:30	Soil	07/20/13			S_7471BHG Composite	
1301147-003A	SP-6 2C @ 1 -1 1/2	01/14/13 10:43	Soil	07/20/13			S_7471BHG Composite	
1301147-004A	SP-6 2D @ 9-9 1/2	01/14/13 10:58	Soil	07/20/13			S_7471BHG Composite	
1301147-005A	Comp.SP-6 2(A-D)	01/14/13	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOC	
1301147-006A	SP-6-3A @ 4-4 1/2	01/14/13 11:26	Soil	07/20/13			Composite	
1301147-007A	SP-6 -3B @ 12-12 1/2	01/14/13 11:42	Soil	07/20/13			Composite	
1301147-008A	SP-6 -3C @ 2-2 1/2	01/14/13 12:06	Soil	07/20/13			Composite	
1301147-009A	SP-6 -3D @ 8-8 1/2	01/14/13 12:20	Soil	07/20/13			Composite	
1301147-010A	Comp.SP-6 -3(A-D)	01/14/13	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOC	
1301147-011A	SP-6 -4A @ 8-8 1/2	01/14/13 9:06	Soil	07/20/13			Composite	
1301147-012A	SP-6-4B @ 4-4 1/2	01/14/13 9:20	Soil	07/20/13			Composite	
1301147-013A	SP-6 -4C @ 12-12 1/2	01/14/13 9:39	Soil	07/20/13			Composite	



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants

**QC Level:**

**Project Name:** Comm Hill

**TAT Requested:** 5+ day:0

**Project # :**

**Date Received:** 1/21/2013

**Report Due Date:** 2/11/2013

**Time Received:** 15:47

**Comments:** 5 day TAT!!! 4:1 pt composite.

Please send report to both Tom McCloskey and Chris Vertin.

**Work Order # :** **1301147**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301147-014A	SP-6 -4D @ 2-2 1/2	01/14/13 9:54	Soil	07/20/13			Composite	
1301147-015A	Comp.SP-6-4(A-D)	01/14/13	Soil	07/20/13			Composite S_7471BHG S_6010BCAM17 S_8081AACP S_8270PAHSIM	





483 Sinclair Frontage Road  
Milpitas, CA 95035  
Phone: 408.263.5258  
FAX: 408.263.8293  
www.torrentlab.com

### CHAIN OF CUSTODY

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

LAB WORK ORDER NO  
**1301147**

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill

Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling

City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 21-pt Composite

Telephone: 925.895.6628 / 925.282.2077

REPORT TO: Tam McCloskey / Chris Vertan SAMPLER: Chris Vertan P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:  Storm Water  Air  QC Level IV  
 Waste Water  Other  EDF  
 Ground Water  Excel / EDD  
 Soil

REPORT FORMAT:  QC Level IV  EDF  Excel / EDD

Vertical text: Metals - CAN 17  
OC Ps - (500)  
Sem Metals (51)

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
001A		SP-6-2A-33 1/2	1/14/13 10:14	Soil	1	4oz glass jar	} - 005A 4pt Composite
002A		SP-6-2B-6 1/2	10:30				
003A		SP-6-2C-1-1 1/2	10:43				
004A		SP-6-2D-9-9 1/2	10:58				
006A		SP-6-3A-4-4 1/2	11:26				} - 010A 4pt Composite
007A		SP-6-3B-12-12 1/2	11:42				
008A		SP-6-3C-2-2 1/2	12:06				
009A		SP-6-3D-8-8 1/2	12:20				

Relinquished By: Chris Vertan Print: Chris Vertan Date: 1/21/13 Time: 15:47

Received By: M. G. Shodesara Print: MANN G Date: 1-21-13 Time: 15:47

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment Torrent plus Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 3 °C Page 1 of 2

Log In By: \_\_\_\_\_ Date: \_\_\_\_\_ Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



483 Sinclair Frontage Road  
Milpitas, CA 95035  
Phone: 408.263.5258  
FAX: 408.263.8293  
www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301147

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: MCT-McCluskey  Env.  IH  Food  Special Location of Sampling: Comm Hill

Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling

City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4 pt Composite

Telephone: 925.786.2667 FAX:

REPORT TO: Tom McCluskey/Chris Vortin SAMPLER: Chris Vortin P.O. #: EMAIL:

TURNAROUND TIME:

- 10 Work Days  4 Work Days  1 Work Day
- 7 Work Days  3 Work Days  Noon - Nxt Day
- 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:

- Storm Water  Air
- Waste Water  Other
- Ground Water
- Soil

REPORT FORMAT:

- QC Level IV
- EDF
- Excel / EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
011A		SP-6-4Ae8-8 1/2	1/14/13 7:06	Soil	1	4oz glass Jar	} -015A } 4pt Composite
012A		SP-6-4Be4-4 1/2	9:20				
013A		SP-6-4Ce2-12 1/2	9:39				
014A		SP-6-4De2-2 1/2	9:54				

TORRENT LAB

Relinquished By: <u>Christopher Vortin</u> Print: <u>Christopher Vortin</u> Date: <u>1/21/13</u> Time: <u>1547</u>	Received By: <u>P. H. Chodasera</u> Print: <u>NAYIN G</u> Date: <u>1-21-13</u> Time: <u>15:47</u>
Relinquished By: _____ Print: _____ Date: _____ Time: _____	Received By: _____ Print: _____ Date: _____ Time: _____

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment Torrent p/n Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 3 °C Page 2 of 2

Log In By: \_\_\_\_\_ Date: 1/21/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



**Change Order**

**Work Order:** 1301147

**Serial #:** CO13-0022

**Print Date:** 2/4/2013

**Project Name:** Comm Hill

**Client:** McCloskey Consultants

**Requested By:** Christopher Vertin

	<u>Requested Date</u>	<u>Requested Time</u>	<u>Extended Price</u>
Additional Test Hg analysis on 1301147-001A, 002A, 003A, 004A on 5day TAT	2/4/2013	12:40:00PM	



2/4/13

Torrent Laboratory, Inc. Mail - Re: Comm Hill - 1301144, 1301146, & 1301147



more information...

**Re: Comm Hill - 1301144, 1301146, & 1301147**

**Christopher Vertin** <chris@cvenvironmental.com>  
To: "Torrent Laboratory, Inc." <pm@torrentlaboratory.com>

Mon, Feb 4, 2013 at 12:40 PM

Dear PM Team,

We need to analyze the discrete samples for SP-6-2 in WO 1301147

- SP-6-2A
- SP-6-2B
- SP-6-2C
- SP-6-2D

The samples need analyzed for Mercury on a 5 Day TAT

Thank you.

Sincerely,

Christopher Vertin

chris@cvenvironmental.com  
925.895.6628

IMPORTANT NOTICE: The information contained in this electronic message and/or its attachments is intended for the named recipient only. The electronic message and/or its attachments may contain confidential, non-public or privileged information disclosure of which is restricted by applicable law, including the federal securities laws. If you are not an intended recipient, or the employee or agent responsible for delivering this message to the intended recipient, do not copy, distribute or rely on the information contained herein. If you have received this message in error, please notify the sender immediately by reply and immediately delete this message and any attachments.

On Jan 22, 2013, at 12:06 PM, Torrent Laboratory, Inc. wrote:

Tom, Chris,  
Attached are the login summaries for work orders 1301144, 1301146, and 1301147.  
Best,  
Karin

--  
Best Regards,

Janice Winn-Shilling x206 and Karin Bernstein x204, x209

Torrent's Project Management Team  
(408) 263-5258 ext 204, 206, 209  
pm@torrentlaboratory.com

483 Sinclair Frontage Rd  
Milpitas, CA 95035  
www.torrentlaboratory.com

The contents of this message are confidential and are bound by law from disclosure, tampering, or any other use by a third party.

If you are not the intended recipient of this message and its contents, please contact us immediately at (408) 263-5258 and delete the message and its contents.

<1301144 MCI\_LIS.pdf><1301146 MCI\_LIS.pdf><1301147 MCI\_LIS.pdf>

<https://mail.google.com/mail/c/u/0/?ui=2&ik=e890e5e2a7&view=pt&search=inbox&th=13ca6f06880bda07>

1/2



Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301060

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 12 sample(s) on January 09, 2013 for the analyses presented in the following Report.

Fifteen samples received and composited 4:1 per CoC instructions.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

---

Patti Sandrock  
QA Officer

January 16, 2013

---

Date



**Date:** 1/16/2013

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**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301060

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13

Date Reported: 01/16/13

SP-2-1(A, B, C, D)

1301060-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	180	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	100	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	16	mg/Kg
Copper	SW6010B	1	0.650	5.0	25	mg/Kg
Lead	SW6010B	1	0.14	1.0	15	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	190	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	41	mg/Kg
Zinc	SW6010B	1	0.25	5.0	50	mg/Kg
4,4'-DDE	SW8081A	20	10	40	14	ug/Kg
4,4'-DDT	SW8081A	20	13	40	39	ug/Kg
Mercury	SW7471A	1	0.2	0.50	0.55	mg/Kg
Chrysene	8270CSIM	5	0.03275	0.498	0.043	mg/Kg

SP-2-2(A, B, C, D)

1301060-010

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	190	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	71	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	15	mg/Kg
Copper	SW6010B	1	0.650	5.0	24	mg/Kg
Lead	SW6010B	1	0.14	1.0	13	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	160	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	38	mg/Kg
Zinc	SW6010B	1	0.25	5.0	43	mg/Kg
Mercury	SW7471A	1	0.2	0.50	0.54	mg/Kg
4,4'-DDE	SW8081A	40	20	80	23	ug/Kg
4,4'-DDT	SW8081A	40	27	80	69	ug/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13

Date Reported: 01/16/13

SP-3-1(A, B, C, D)

1301060-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	140	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	110	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	20	mg/Kg
Copper	SW6010B	1	0.650	5.0	29	mg/Kg
Lead	SW6010B	1	0.14	1.0	9.2	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	280	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	39	mg/Kg
Zinc	SW6010B	1	0.25	5.0	50	mg/Kg
4,4'-DDT	SW8081A	20	13	40	33	ug/Kg
Mercury	SW7471A	1	0.2	0.50	0.84	mg/Kg





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-2-1(A, B, C, D)	<b>Lab Sample ID:</b>	1301060-005A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/08/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	180		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	100		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	16		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	25		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	15		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	190		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	41		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	50		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	0.55		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-2-1(A, B, C, D)	Lab Sample ID:	1301060-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	20	11	40	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	20	8.1	40	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	20	7.2	40	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	20	19	40	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	20	13	40	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	20	10	40	14	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	20	17	40	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	20	15	40	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	20	13	40	39	J	ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	20	9.2	40	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	20	12	100	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	20	210	400	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	20	160	2000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	20	52.5	139	0.000	D	%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	20	50.2	139	0.000	D	%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-2-1(A, B, C, D)	Lab Sample ID:	1301060-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	5	0.06100	0.248	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03845	0.248	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03770	0.248	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	5	0.04135	0.248	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	5	0.04220	0.248	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	5	0.04800	0.248	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	5	0.04855	0.248	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	5	0.04840	0.248	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.04835	0.248	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	5	0.06200	0.248	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	5	0.03605	0.248	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	5	0.03275	0.498	0.043	J	mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.02415	0.248	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.03920	0.248	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	5	0.03660	0.248	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	5	0.05400	0.248	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	5	0.05200	0.248	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	5	0.05600	0.248	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	5	25	91.6	54.4		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	5	24.3	129	44.9		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-2-2(A, B, C, D)	Lab Sample ID:	1301060-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	190		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	71		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	15		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	24		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	13		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	160		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	38		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	43		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	0.54		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-2-2(A, B, C, D)	Lab Sample ID:	1301060-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	40	24	80	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	40	25	80	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	40	23	80	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	40	16	80	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	40	32	80	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	40	32	80	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	40	14	80	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	40	32	80	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	40	38	80	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	40	26	80	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	40	20	80	23	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	40	23	80	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	40	34	80	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	40	30	80	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	40	33	80	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	40	27	80	69	J	ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	40	18	80	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	40	23	80	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	40	25	200	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	40	23	80	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	40	410	800	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	40	330	4000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	40	52.5	139	0.000	D	%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	40	50.2	139	0.000	D	%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-2-2(A, B, C, D)	Lab Sample ID:	1301060-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	10	0.6100	2.48	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.3845	2.48	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.3770	2.48	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	10	0.4135	2.48	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	10	0.4220	2.48	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	10	0.4800	2.48	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	10	0.4855	2.48	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	10	0.4840	2.48	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.4835	2.48	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	10	0.6200	2.48	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	10	0.3605	2.48	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	10	0.3275	4.98	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.2415	2.48	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.3920	2.48	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	10	0.3660	2.48	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	10	0.5400	2.48	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	10	0.5200	2.48	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	10	0.5600	2.48	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	10	25	91.6	0.000	D	%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	10	24.3	129	0.000	D	%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-3-1(A, B, C, D)	<b>Lab Sample ID:</b>	1301060-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/08/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	140		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	110		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	20		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	29		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	9.2		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	280		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	39		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	50		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	0.84		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-3-1(A, B, C, D)	Lab Sample ID:	1301060-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	20	11	40	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	20	8.1	40	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	20	7.2	40	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	20	19	40	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	20	13	40	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	20	10	40	ND		ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	20	17	40	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	20	15	40	ND		ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	20	16	40	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	20	13	40	33	J	ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	20	9.2	40	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	20	12	100	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	20	12	40	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	20	210	400	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	20	160	2000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	20	52.5	139	0.000	D	%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	20	50.2	139	0.000	D	%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)





## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-3-1(A, B, C, D)	Lab Sample ID:	1301060-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/08/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	10	0.1220	0.495	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07690	0.495	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07540	0.495	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	10	0.08270	0.495	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	10	0.08440	0.495	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	10	0.09600	0.495	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	10	0.09710	0.495	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	10	0.09680	0.495	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.09670	0.495	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	10	0.1240	0.495	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	10	0.07210	0.495	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	10	0.06550	0.995	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.04830	0.495	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.07840	0.495	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	10	0.07320	0.495	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	10	0.1080	0.495	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	10	0.1040	0.495	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	10	0.1120	0.495	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	10	25	91.6	70.8		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	10	24.3	129	53.6		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



### MB Summary Report

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.25	1.7	ND	
Barium	0.07	5.0	0.45	
Beryllium	0.0800	2.0	ND	
Cadmium	0.055	1.0	ND	
Chromium	0.050	5.0	0.11	
Cobalt	0.055	5.0	ND	
Copper	0.65	5.0	ND	
Lead	0.14	1.0	0.23	
Molybdenum	0.12	5.0	ND	
Nickel	0.050	5.0	0.090	
Selenium	0.42	5.0	ND	
Silver	0.37	1.0	ND	
Thallium	0.49	5.0	ND	
Vanadium	0.18	5.0	ND	
Zinc	0.25	5.0	0.28	

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	



## MB Summary Report

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Naphthalene	0.008052	0.0327	ND		
2-Methylnaphthalene	0.005075	0.0327	ND		
1-Methylnaphthalene	0.004976	0.0327	ND		
Acenaphthylene	0.005458	0.0327	ND		
Acenaphthene	0.005570	0.0327	ND		
Fluorene	0.006336	0.0327	ND		
Phenanthrene	0.006409	0.0327	ND		
Anthracene	0.006389	0.0327	ND		
Fluoranthene	0.006382	0.0327	ND		
Pyrene	0.008184	0.0327	ND		
Benz[a]anthracene	0.004759	0.0327	ND		
Chrysene	0.004323	0.0657	ND		
Benzo[b]fluoranthene	0.003188	0.0327	ND		
Benzo[k]fluoranthene	0.005174	0.0327	ND		
Benzo[a]pyrene	0.004831	0.0327	ND		
Indeno[1,2,3-cd]pyrene	0.007128	0.0327	ND		
Dibenz[a,h]anthracene	0.006864	0.0327	ND		
Benzo[g,h,i]perylene	0.007392	0.0327	ND		
2-Fluorobiphenyl (S)			79.6		
p-Terphenyl-d14 (S)			64.3		



## MB Summary Report

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7546
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/11/13	<b>Analytical Batch:</b>	413415
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
alpha-BHC	0.61	2.0	ND		
gamma-BHC	0.61	2.0	ND		
beta-BHC	0.56	2.0	ND		
delta-BHC	0.40	2.0	ND		
Heptachlor	0.79	2.0	ND		
Aldrin	0.81	2.0	ND		
Heptachlor epoxide	0.36	2.0	ND		
gamma-Chlordane	0.79	2.0	ND		
alpha-Chlordane	0.94	2.0	ND		
Endosulfan I	0.64	2.0	ND		
4,4'-DDE	0.51	2.0	ND		
Dieldrin	0.58	2.0	ND		
Endrin	0.86	2.0	ND		
4,4'-DDD	0.76	2.0	ND		
Endosulfan II	0.82	2.0	ND		
4,4'-DDT	0.67	2.0	ND		
Endrin aldehyde	0.46	2.0	ND		
Endosulfan sulfate	0.58	2.0	ND		
Methoxychlor	0.61	5.0	ND		
Endrin Ketone	0.58	2.0	ND		
Chlordane	10	20	ND		
Toxaphene	8.2	100	ND		
TCMX (S)			101		
DCBP (S)			104		



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	97.5	97.1	0.401	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	95.8	95.5	0.324	71 - 121	30	
Barium	0.07	5.0	0.45	50	99.8	99.2	0.623	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	96.3	96.6	0.280	73.3 - 115	30	
Cadmium	0.055	1.0	ND	50	94.4	94.4	0.0530	68.7 - 110	30	
Chromium	0.050	5.0	0.11	50	98.8	98.3	0.538	76 - 116	30	
Cobalt	0.055	5.0	ND	50	96.8	96.4	0.373	57.4 - 122	30	
Copper	0.65	5.0	ND	50	98.1	97.1	1.03	74.8 - 119	30	
Lead	0.14	1.0	0.23	50	97.3	96.6	0.712	67.9 - 118	30	
Molybdenum	0.12	5.0	ND	50	100	99.2	0.803	62.9 - 123	30	
Nickel	0.050	5.0	0.090	50	97.0	96.3	0.714	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	93.1	92.1	1.05	62 - 111	30	
Silver	0.37	1.0	ND	50	94.7	94.4	0.349	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	92.5	92.7	0.227	39.2 - 125	30	
Vanadium	0.18	5.0	ND	50	99.6	99.1	0.483	65.8 - 122	30	
Zinc	0.25	5.0	0.28	50	92.6	92.0	0.683	59.9 - 122	30	

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	99.5	101	1.46	80.5 - 133	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.005570	0.0327	ND	0.2500	58.4	49.6	16.2	11.9 - 106	30	
Pyrene	0.008184	0.0327	ND	0.2500	83.4	81.7	2.06	16.9 - 136	30	
2-Fluorobiphenyl (S)			ND	5	86.3	71.1		25 - 91.6		
p-Terphenyl-d14 (S)			ND	12	59.4	59.4		24.3 - 129		

<b>Work Order:</b>	1301060	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7546
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/11/13	<b>Analytical Batch:</b>	413415
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	102	101	1.83	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	107	105	1.98	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	100	98.4	2.03	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	103	101	2.41	44 - 130	30	
Endrin	0.86	2.0	ND	20	112	111	1.03	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	120	122	2.45	52.8 - 134	30	
TCMX (S)			ND	350	98.9	97.5		52.5 - 139		
DCBP (S)			ND	350	101	100		50.2 - 139		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m3</b> , <b>mg.m3</b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301060

Date and Time Received: 1/9/2013 15:46

Received By: ng

Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: Client Drop Off

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes      Temperature: 2 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a      pH Adjusted by: n/a





## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 1/16/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301060**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/9/2013  
**Time Received:** 15:46

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301060-001A	SP-2-1A @ 5-5 1/2	01/08/13 11:29	Soil	07/08/13			Composite	
1301060-002A	SP-2-1B @ 8-8 1/2	01/08/13 11:45	Soil	07/08/13			Composite	
1301060-003A	SP-2-1C @ 2 1/2-3	01/08/13 11:55	Soil	07/08/13			Composite	
1301060-004A	SP-2-1D @ 11-11 1/2	01/08/13 12:12	Soil	07/08/13			Composite	
1301060-005A	SP-2-1(A, B, C, D)	01/08/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
<b>Sample Note:</b> Composite: 4:1								
1301060-006A	SP-2-2A @ 7-7 1/2	01/08/13 13:12	Soil	07/08/13			Composite	
1301060-007A	SP-2-2B @ 9-9 1/2	01/08/13 13:32	Soil	07/08/13			Composite	
1301060-008A	SP-2-2C @ 1 1/2-2	01/08/13 13:41	Soil	07/08/13			Composite	
1301060-009A	SP-2-2D @ 4-4 1/2	01/08/13 13:49	Soil	07/08/13			Composite	
1301060-010A	SP-2-2(A, B, C, D)	01/08/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
1301060-011A	SP-3-1A @ 1-1 1/2	01/08/13 14:43	Soil	07/08/13			Composite	
1301060-012A	SP-3-1B @ 5-5 1/2	01/08/13 14:56	Soil	07/08/13			Composite	
1301060-013A	SP-3-1C @ 2 1/2 - 3'	01/08/13 15:03	Soil	07/08/13			Composite	
1301060-014A	SP-3-1D @ 4-4 1/2	01/08/13 15:14	Soil	07/08/13			Composite	
1301060-015A	SP-3-1(A, B, C, D)	01/08/13	Soil	07/08/13			Composite	



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 1/16/2013  
**Comments:** 5day TAT.  
**Work Order # :** 1301060

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/9/2013  
**Time Received:** 15:46

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<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
							S_7471BHG S_8081AOCB S_8270PAHSIM S_6010BCAM17	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com



### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301060

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: MCI-McCluskey Consultants  Env.  IH  Food  Special Location of Sampling: Comm Hill

Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling

City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4ft composites

Telephone: 925 786 2667 FAX:

REPORT TO: Tom McCluskey/Chris Vertun SAMPLER: Chris Vertun P.O. #: EMAIL:

TURNAROUND TIME: Vertun

10 Work Days  4 Work Days  1 Work Day

7 Work Days  3 Work Days  Noon - Nxt Day

5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:

Storm Water  Air  QC Level IV

Waste Water  Other  EDF

Ground Water  Excel / EDD

Soil

REPORT FORMAT:

Metals-CAM17

CCPs - 8081

Some Vols (827051m)

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
001A		SP-2-1A e 5-5 1/2	1-8-13 11:29	Soil	1	4oz glass jar	} -005A 4pt Composite
002A		SP-2-1B e 8-8 1/2	11:45				
003A		SP-2-1C e 2 1/2-3	11:55				
004A		SP-2-1D e 11-11 1/2	12:12				
006A		SP-2-2A e 7-7 1/2	13:12				} -010A 4pt Composite
007A		SP-2-2B e 9-9 1/2	13:32				
008A		SP-2-2C e 1 1/2-2	13:41				
009A		SP-2-2D e 4-4 1/2	13:49				

TORRENT LAB

1 Relinquished By: Christopher Vertun Print: Christopher Vertun Date: 1/9/13 Time: 15:46

Received By: L-D. Imbar Print: L-D. Imbar Date: 1-9-13 Time: 15:46

2 Relinquished By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D/O Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 2 °C Page 3 of 6

Log In By: [Signature] Date: 1/9/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



483 Sinclair Frontage Road  
Milpitas, CA 95035  
Phone: 408.263.5258  
FAX: 408.263.8293  
www.torrentlab.com



### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301060

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY.

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Chimney Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4pt Composite  
 Telephone: 925 786 2167 FAX:  
 REPORT TO: Tom McCloskey / Chris Vertun SAMPLER: Chris Vertun P.O. #: EMAIL:

TURNAROUND TIME:

- 10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:

- Storm Water  Air  
 Waste Water  Other  
 Ground Water  
 Soil

REPORT FORMAT:

- QC Level IV  
 EDF  
 Excel / EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
011A		SP-3-1A @ 1-1/2	1/9/13 14:43	Soil	1	4oz glass jar	} -015A } 4pt Composite
012A		SP-3-1B @ 5-5/2	14:56				
013A		SP-3-1C @ 2-1/2-3	15:03				
014A		SP-3-1D @ 4-4/2	15:14				

TORRENT LAB

1 Relinquished By: Chris Vertun Print: Chris Vertun Date: 1/9/13 Time: 15:46 Received By: L-D-Imboat Print: L-D-Imboat Date: 1-9-13 Time: 15:46  
 2 Relinquished By: Print: Date: Time: Received By: Print: Date: Time:

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D/D Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 2 °C Page 4 of 6  
 Log In By: Chris Vertun Date: 1/9/13 Log In Reviewed By: Date:



Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301061

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 16 sample(s) on January 09, 2013 for the analyses presented in the following Report.

Twenty samples received and composited 4:1 per CoC instructions.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

---

Patti Sandrock  
QA Officer

January 16, 2013

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Date



**Date:** 1/16/2013

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**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301061

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.



### Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13  
1301061-005

SP-4-1(A, B, C, D)

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE	SW8081A	10	5.1	20	20	ug/Kg
4,4'-DDD	SW8081A	10	7.6	20	8.6	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	22	ug/Kg
Arsenic	SW6010B	1	0.25	1.7	1.9	mg/Kg
Barium	SW6010B	1	0.07	5.0	160	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	80	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	16	mg/Kg
Copper	SW6010B	1	0.650	5.0	31	mg/Kg
Lead	SW6010B	1	0.14	1.0	14	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	130	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	41	mg/Kg
Zinc	SW6010B	1	0.25	5.0	58	mg/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13  
1301061-010

SP-4-2(A, B, C, D)

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.25	1.7	7.0	mg/Kg
Barium	SW6010B	1	0.07	5.0	440	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	54	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	12	mg/Kg
Copper	SW6010B	1	0.650	5.0	31	mg/Kg
Lead	SW6010B	1	0.14	1.0	37	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	100	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	41	mg/Kg
Zinc	SW6010B	1	0.25	5.0	62	mg/Kg
Mercury	SW7471A	1	0.2	0.50	1.1	mg/Kg
gamma-Chlordane	SW8081A	4	3.2	8.0	7.6	ug/Kg
alpha-Chlordane	SW8081A	4	3.8	8.0	7.5	ug/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	69	ug/Kg
Dieldrin	SW8081A	4	2.3	8.0	3.7	ug/Kg
4,4'-DDD	SW8081A	4	3.0	8.0	5.5	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	41	ug/Kg
Chlordane	SW8081A	4	41	80	120	ug/Kg





### Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13

Date Reported: 01/16/13

SP-4-3(A, B, C, D)

1301061-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE	SW8081A	10	5.1	20	26	ug/Kg
4,4'-DDD	SW8081A	10	7.6	20	10	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	22	ug/Kg
Barium	SW6010B	1	0.07	5.0	150	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	64	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	15	mg/Kg
Copper	SW6010B	1	0.650	5.0	36	mg/Kg
Lead	SW6010B	1	0.14	1.0	13	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	77	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	52	mg/Kg
Zinc	SW6010B	1	0.25	5.0	62	mg/Kg

SP-4-4(A, B, C, D)

1301061-020

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
4,4'-DDE	SW8081A	10	5.1	20	13	ug/Kg
4,4'-DDD	SW8081A	10	7.6	20	9.0	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	19	ug/Kg
Barium	SW6010B	1	0.07	5.0	150	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	61	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	28	mg/Kg
Lead	SW6010B	1	0.14	1.0	11	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	100	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	41	mg/Kg
Zinc	SW6010B	1	0.25	5.0	51	mg/Kg



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-1(A, B, C, D)	Lab Sample ID:	1301061-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	1.9		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	160		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	80		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	16		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	31		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	14		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	130		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	41		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	58		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-1(A, B, C, D)	Lab Sample ID:	1301061-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	10	5.6	20	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	10	4.0	20	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	10	8.1	20	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	10	3.6	20	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	10	9.4	20	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	10	6.4	20	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	10	5.1	20	20	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	10	8.6	20	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	10	7.6	20	8.6	J	ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	10	8.2	20	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	10	6.7	20	22		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	10	4.6	20	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	10	6.1	50	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	10	100	200	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	10	82	1000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	10	52.5	139	85.9		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	10	50.2	139	101		%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-1(A, B, C, D)	Lab Sample ID:	1301061-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	10	0.1220	0.495	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07690	0.495	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07540	0.495	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	10	0.08270	0.495	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	10	0.08440	0.495	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	10	0.09600	0.495	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	10	0.09710	0.495	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	10	0.09680	0.495	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.09670	0.495	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	10	0.1240	0.495	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	10	0.07210	0.495	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	10	0.06550	0.995	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.04830	0.495	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.07840	0.495	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	10	0.07320	0.495	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	10	0.1080	0.495	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	10	0.1040	0.495	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	10	0.1120	0.495	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	10	25	91.6	62.3		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	10	24.3	129	52.2		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-2(A, B, C, D)	Lab Sample ID:	1301061-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	7.0		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	440		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	54		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	12		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	31		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	37		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	100		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	41		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	62		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	1.1		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-2(A, B, C, D)	Lab Sample ID:	1301061-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	4	2.4	8.0	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	4	2.5	8.0	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	4	1.6	8.0	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	4	3.2	8.0	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	4	1.4	8.0	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	4	3.2	8.0	7.6	J	ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	4	3.8	8.0	7.5	J	ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	4	2.6	8.0	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	4	2.0	8.0	69		ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	4	2.3	8.0	3.7	J	ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	4	3.4	8.0	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	4	3.0	8.0	5.5	J	ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	4	3.3	8.0	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	4	2.7	8.0	41		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	4	1.8	8.0	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	4	2.5	20	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	4	2.3	8.0	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	4	41	80	120		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	4	33	400	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	4	52.5	139	95.9		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	4	50.2	139	102		%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-2(A, B, C, D)	Lab Sample ID:	1301061-010A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	5	0.06100	0.248	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03845	0.248	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03770	0.248	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	5	0.04135	0.248	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	5	0.04220	0.248	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	5	0.04800	0.248	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	5	0.04855	0.248	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	5	0.04840	0.248	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.04835	0.248	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	5	0.06200	0.248	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	5	0.03605	0.248	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	5	0.03275	0.498	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.02415	0.248	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.03920	0.248	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	5	0.03660	0.248	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	5	0.05400	0.248	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	5	0.05200	0.248	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	5	0.05600	0.248	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	5	25	91.6	69.5		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	5	24.3	129	57.3		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-4-3(A, B, C, D)	<b>Lab Sample ID:</b>	1301061-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/09/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	150		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	64		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	15		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	36		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	13		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	77		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	52		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	62		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543





## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-3(A, B, C, D)	Lab Sample ID:	1301061-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	10	5.6	20	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	10	4.0	20	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	10	8.1	20	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	10	3.6	20	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	10	9.4	20	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	10	6.4	20	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	10	5.1	20	26		ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	10	8.6	20	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	10	7.6	20	10	J	ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	10	8.2	20	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	10	6.7	20	22		ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	10	4.6	20	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	10	6.1	50	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	10	100	200	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	10	82	1000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	10	52.5	139	94.0		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	10	50.2	139	92.5		%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-3(A, B, C, D)	Lab Sample ID:	1301061-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	5	0.06100	0.248	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03845	0.248	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	5	0.03770	0.248	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	5	0.04135	0.248	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	5	0.04220	0.248	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	5	0.04800	0.248	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	5	0.04855	0.248	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	5	0.04840	0.248	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.04835	0.248	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	5	0.06200	0.248	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	5	0.03605	0.248	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	5	0.03275	0.498	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.02415	0.248	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	5	0.03920	0.248	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	5	0.03660	0.248	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	5	0.05400	0.248	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	5	0.05200	0.248	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	5	0.05600	0.248	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	5	25	91.6	53.6		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	5	24.3	129	42.1		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-4-4(A, B, C, D)	<b>Lab Sample ID:</b>	1301061-020A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/09/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/9/13	01/10/13	1	0.20	5.0	ND		mg/Kg	413395	7540
Arsenic	SW6010B	1/9/13	01/10/13	1	0.25	1.7	ND		mg/Kg	413395	7540
Barium	SW6010B	1/9/13	01/10/13	1	0.07	5.0	150		mg/Kg	413395	7540
Beryllium	SW6010B	1/9/13	01/10/13	1	0.0800	2.0	ND		mg/Kg	413395	7540
Cadmium	SW6010B	1/9/13	01/10/13	1	0.0550	1.0	ND		mg/Kg	413395	7540
Chromium	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	61		mg/Kg	413395	7540
Cobalt	SW6010B	1/9/13	01/10/13	1	0.055	5.0	13		mg/Kg	413395	7540
Copper	SW6010B	1/9/13	01/10/13	1	0.650	5.0	28		mg/Kg	413395	7540
Lead	SW6010B	1/9/13	01/10/13	1	0.14	1.0	11		mg/Kg	413395	7540
Molybdenum	SW6010B	1/9/13	01/10/13	1	0.120	5.0	ND		mg/Kg	413395	7540
Nickel	SW6010B	1/9/13	01/10/13	1	0.0500	5.0	100		mg/Kg	413395	7540
Selenium	SW6010B	1/9/13	01/10/13	1	0.42	5.0	ND		mg/Kg	413395	7540
Silver	SW6010B	1/9/13	01/10/13	1	0.37	1.0	ND		mg/Kg	413395	7540
Thallium	SW6010B	1/9/13	01/10/13	1	0.49	5.0	ND		mg/Kg	413395	7540
Vanadium	SW6010B	1/9/13	01/10/13	1	0.18	5.0	41		mg/Kg	413395	7540
Zinc	SW6010B	1/9/13	01/10/13	1	0.25	5.0	51		mg/Kg	413395	7540

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/9/13	01/10/13	1	0.2	0.50	ND		mg/Kg	413398	7543



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/09/13  
Date Reported: 01/16/13

Client Sample ID:	SP-4-4(A, B, C, D)	Lab Sample ID:	1301061-020A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/09/13 /		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
gamma-BHC	SW8081A	1/9/13	01/11/13	10	6.1	20	ND		ug/Kg	413442	7546
beta-BHC	SW8081A	1/9/13	01/11/13	10	5.6	20	ND		ug/Kg	413442	7546
delta-BHC	SW8081A	1/9/13	01/11/13	10	4.0	20	ND		ug/Kg	413442	7546
Heptachlor	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
Aldrin	SW8081A	1/9/13	01/11/13	10	8.1	20	ND		ug/Kg	413442	7546
Heptachlor epoxide	SW8081A	1/9/13	01/11/13	10	3.6	20	ND		ug/Kg	413442	7546
gamma-Chlordane	SW8081A	1/9/13	01/11/13	10	7.9	20	ND		ug/Kg	413442	7546
alpha-Chlordane	SW8081A	1/9/13	01/11/13	10	9.4	20	ND		ug/Kg	413442	7546
Endosulfan I	SW8081A	1/9/13	01/11/13	10	6.4	20	ND		ug/Kg	413442	7546
4,4'-DDE	SW8081A	1/9/13	01/11/13	10	5.1	20	13	J	ug/Kg	413442	7546
Dieldrin	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Endrin	SW8081A	1/9/13	01/11/13	10	8.6	20	ND		ug/Kg	413442	7546
4,4'-DDD	SW8081A	1/9/13	01/11/13	10	7.6	20	9.0	J	ug/Kg	413442	7546
Endosulfan II	SW8081A	1/9/13	01/11/13	10	8.2	20	ND		ug/Kg	413442	7546
4,4'-DDT	SW8081A	1/9/13	01/11/13	10	6.7	20	19	J	ug/Kg	413442	7546
Endrin aldehyde	SW8081A	1/9/13	01/11/13	10	4.6	20	ND		ug/Kg	413442	7546
Endosulfan sulfate	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Methoxychlor	SW8081A	1/9/13	01/11/13	10	6.1	50	ND		ug/Kg	413442	7546
Endrin Ketone	SW8081A	1/9/13	01/11/13	10	5.8	20	ND		ug/Kg	413442	7546
Chlordane	SW8081A	1/9/13	01/11/13	10	100	200	ND		ug/Kg	413442	7546
Toxaphene	SW8081A	1/9/13	01/11/13	10	82	1000	ND		ug/Kg	413442	7546
TCMX (S)	SW8081A	1/9/13	01/11/13	10	52.5	139	88.2		%	413442	7546
DCBP (S)	SW8081A	1/9/13	01/11/13	10	50.2	139	82.3		%	413442	7546

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/09/13  
**Date Reported:** 01/16/13

<b>Client Sample ID:</b>	SP-4-4(A, B, C, D)	<b>Lab Sample ID:</b>	1301061-020A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/09/13 /		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

Naphthalene	8270CSIM	1/10/13	01/10/13	10	0.1220	0.495	ND		mg/Kg	413393	7544
2-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07690	0.495	ND		mg/Kg	413393	7544
1-Methylnaphthalene	8270CSIM	1/10/13	01/10/13	10	0.07540	0.495	ND		mg/Kg	413393	7544
Acenaphthylene	8270CSIM	1/10/13	01/10/13	10	0.08270	0.495	ND		mg/Kg	413393	7544
Acenaphthene	8270CSIM	1/10/13	01/10/13	10	0.08440	0.495	ND		mg/Kg	413393	7544
Fluorene	8270CSIM	1/10/13	01/10/13	10	0.09600	0.495	ND		mg/Kg	413393	7544
Phenanthrene	8270CSIM	1/10/13	01/10/13	10	0.09710	0.495	ND		mg/Kg	413393	7544
Anthracene	8270CSIM	1/10/13	01/10/13	10	0.09680	0.495	ND		mg/Kg	413393	7544
Fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.09670	0.495	ND		mg/Kg	413393	7544
Pyrene	8270CSIM	1/10/13	01/10/13	10	0.1240	0.495	ND		mg/Kg	413393	7544
Benz[a]anthracene	8270CSIM	1/10/13	01/10/13	10	0.07210	0.495	ND		mg/Kg	413393	7544
Chrysene	8270CSIM	1/10/13	01/10/13	10	0.06550	0.995	ND		mg/Kg	413393	7544
Benzo[b]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.04830	0.495	ND		mg/Kg	413393	7544
Benzo[k]fluoranthene	8270CSIM	1/10/13	01/10/13	10	0.07840	0.495	ND		mg/Kg	413393	7544
Benzo[a]pyrene	8270CSIM	1/10/13	01/10/13	10	0.07320	0.495	ND		mg/Kg	413393	7544
Indeno[1,2,3-cd]pyrene	8270CSIM	1/10/13	01/10/13	10	0.1080	0.495	ND		mg/Kg	413393	7544
Dibenz[a,h]anthracene	8270CSIM	1/10/13	01/10/13	10	0.1040	0.495	ND		mg/Kg	413393	7544
Benzo[g,h,i]perylene	8270CSIM	1/10/13	01/10/13	10	0.1120	0.495	ND		mg/Kg	413393	7544
2-Fluorobiphenyl (S)	8270CSIM	1/10/13	01/10/13	10	25	91.6	65.1		%	413393	7544
p-Terphenyl-d14 (S)	8270CSIM	1/10/13	01/10/13	10	24.3	129	51.0		%	413393	7544

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



### MB Summary Report

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.25	1.7	ND	
Barium	0.07	5.0	0.45	
Beryllium	0.0800	2.0	ND	
Cadmium	0.055	1.0	ND	
Chromium	0.050	5.0	0.11	
Cobalt	0.055	5.0	ND	
Copper	0.65	5.0	ND	
Lead	0.14	1.0	0.23	
Molybdenum	0.12	5.0	ND	
Nickel	0.050	5.0	0.090	
Selenium	0.42	5.0	ND	
Silver	0.37	1.0	ND	
Thallium	0.49	5.0	ND	
Vanadium	0.18	5.0	ND	
Zinc	0.25	5.0	0.28	

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	



## MB Summary Report

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Naphthalene	0.008052	0.0327	ND		
2-Methylnaphthalene	0.005075	0.0327	ND		
1-Methylnaphthalene	0.004976	0.0327	ND		
Acenaphthylene	0.005458	0.0327	ND		
Acenaphthene	0.005570	0.0327	ND		
Fluorene	0.006336	0.0327	ND		
Phenanthrene	0.006409	0.0327	ND		
Anthracene	0.006389	0.0327	ND		
Fluoranthene	0.006382	0.0327	ND		
Pyrene	0.008184	0.0327	ND		
Benz[a]anthracene	0.004759	0.0327	ND		
Chrysene	0.004323	0.0657	ND		
Benzo[b]fluoranthene	0.003188	0.0327	ND		
Benzo[k]fluoranthene	0.005174	0.0327	ND		
Benzo[a]pyrene	0.004831	0.0327	ND		
Indeno[1,2,3-cd]pyrene	0.007128	0.0327	ND		
Dibenz[a,h]anthracene	0.006864	0.0327	ND		
Benzo[g,h,i]perylene	0.007392	0.0327	ND		
2-Fluorobiphenyl (S)			79.6		
p-Terphenyl-d14 (S)			64.3		



### MB Summary Report

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7546
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/11/13	<b>Analytical Batch:</b>	413415
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.61	2.0	ND	
gamma-BHC	0.61	2.0	ND	
beta-BHC	0.56	2.0	ND	
delta-BHC	0.40	2.0	ND	
Heptachlor	0.79	2.0	ND	
Aldrin	0.81	2.0	ND	
Heptachlor epoxide	0.36	2.0	ND	
gamma-Chlordane	0.79	2.0	ND	
alpha-Chlordane	0.94	2.0	ND	
Endosulfan I	0.64	2.0	ND	
4,4'-DDE	0.51	2.0	ND	
Dieldrin	0.58	2.0	ND	
Endrin	0.86	2.0	ND	
4,4'-DDD	0.76	2.0	ND	
Endosulfan II	0.82	2.0	ND	
4,4'-DDT	0.67	2.0	ND	
Endrin aldehyde	0.46	2.0	ND	
Endosulfan sulfate	0.58	2.0	ND	
Methoxychlor	0.61	5.0	ND	
Endrin Ketone	0.58	2.0	ND	
Chlordane	10	20	ND	
Toxaphene	8.2	100	ND	
TCMX (S)			101	
DCBP (S)			104	





## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7540
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413395
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	97.5	97.1	0.401	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	95.8	95.5	0.324	71 - 121	30	
Barium	0.07	5.0	0.45	50	99.8	99.2	0.623	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	96.3	96.6	0.280	73.3 - 115	30	
Cadmium	0.055	1.0	ND	50	94.4	94.4	0.0530	68.7 - 110	30	
Chromium	0.050	5.0	0.11	50	98.8	98.3	0.538	76 - 116	30	
Cobalt	0.055	5.0	ND	50	96.8	96.4	0.373	57.4 - 122	30	
Copper	0.65	5.0	ND	50	98.1	97.1	1.03	74.8 - 119	30	
Lead	0.14	1.0	0.23	50	97.3	96.6	0.712	67.9 - 118	30	
Molybdenum	0.12	5.0	ND	50	100	99.2	0.803	62.9 - 123	30	
Nickel	0.050	5.0	0.090	50	97.0	96.3	0.714	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	93.1	92.1	1.05	62 - 111	30	
Silver	0.37	1.0	ND	50	94.7	94.4	0.349	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	92.5	92.7	0.227	39.2 - 125	30	
Vanadium	0.18	5.0	ND	50	99.6	99.1	0.483	65.8 - 122	30	
Zinc	0.25	5.0	0.28	50	92.6	92.0	0.683	59.9 - 122	30	

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7543
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413398
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	99.5	101	1.46	80.5 - 133	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.005570	0.0327	ND	0.2500	58.4	49.6	16.2	11.9 - 106	30	
Pyrene	0.008184	0.0327	ND	0.2500	83.4	81.7	2.06	16.9 - 136	30	
2-Fluorobiphenyl (S)			ND	5	86.3	71.1		25 - 91.6		
p-Terphenyl-d14 (S)			ND	12	59.4	59.4		24.3 - 129		

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/09/13	<b>Prep Batch:</b>	7546
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/11/13	<b>Analytical Batch:</b>	413415
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	102	101	1.83	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	107	105	1.98	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	100	98.4	2.03	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	103	101	2.41	44 - 130	30	
Endrin	0.86	2.0	ND	20	112	111	1.03	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	120	122	2.45	52.8 - 134	30	
TCMX (S)			ND	350	98.9	97.5		52.5 - 139		
DCBP (S)			ND	350	101	100		50.2 - 139		



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301061	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/10/13	<b>Prep Batch:</b>	7544
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/10/13	<b>Analytical Batch:</b>	413393
<b>Spiked Sample:</b>	1301061-010A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.04220	0.248	0	0.25	94.2	18.1	4.07	11.9 - 106	30	
Pyrene	0.06200	0.248	0.0721	0.25	119	117	2.19	16.9 - 136	30	
2-Fluorobiphenyl (S)				5	85.8	76.9		25 - 91.6		
p-Terphenyl-d14 (S)				12	54.4	56.1		24.3 - 129		



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m3</b> , <b>mg.m3</b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm <sup>2</sup> surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301061

Date and Time Received: 1/9/2013 15:46

Received By: ng

Physically Logged By: ng

Checklist Completed By: ng

Carrier Name: Client Drop Off

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes Temperature: 2 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a pH Adjusted by: n/a



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 1/16/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301061**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/9/2013  
**Time Received:** 15:46

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301061-001A	SP-4-1A @ 2 1/2-3	01/09/13 8:42	Soil	07/08/13			Composite	
1301061-002A	SP-4-1B @ 6-6 1/2	01/09/13 9:13	Soil	07/08/13			Composite	
1301061-003A	SP-4-1C @ 12 1/2-13	01/09/13 9:35	Soil	07/08/13			Composite	
1301061-004A	SP-4-1D @ 4-4 1/2	01/09/13 15:07	Soil	07/08/13			Composite	
1301061-005A	SP-4-1(A, B, C, D)	01/09/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
<b><u>Sample Note:</u></b> Composite: 4:1								
1301061-006A	SP-4-2A @ 2 1/2-3	01/09/13 8:54	Soil	07/08/13			Composite	
1301061-007A	SP-4-2B @ 4-4 1/2	01/09/13 9:59	Soil	07/08/13			Composite	
1301061-008A	SP-4-2C @ 9 1/2-10	01/09/13 10:18	Soil	07/08/13			Composite	
1301061-009A	SP-4-2D @ 5-5 1/2	01/09/13 14:51	Soil	07/08/13			Composite	
1301061-010A	SP-4-2(A, B, C, D)	01/09/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8081AOCP S_8270PAHSIM	
1301061-011A	SP-4-3A @ 1 1/2-2	01/09/13 11:11	Soil	07/08/13			Composite	
1301061-012A	SP-4-3B @ 8-8 1/2	01/09/13 11:29	Soil	07/08/13			Composite	
1301061-013A	SP-4-3C @ 5-5 1/2	01/09/13 11:47	Soil	07/08/13			Composite	
1301061-014A	SP-4-3D @ 12-12 1/2	01/09/13 12:22	Soil	07/08/13			Composite	
1301061-015A	SP-4-3(A, B, C, D)	01/09/13	Soil	07/08/13			Composite	



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants  
**Project Name:** Comm Hill  
**Project # :**  
**Report Due Date:** 1/16/2013  
**Comments:** 5day TAT.  
**Work Order # :** **1301061**

**QC Level:**  
**TAT Requested:** 5+ day:0  
**Date Received:** 1/9/2013  
**Time Received:** 15:46

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301061-016A	SP-4-4A @ 3-3 1/2	01/09/13 13:24	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	
1301061-017A	SP-4-4B @ 7-7 1/2	01/09/13 13:37	Soil	07/08/13			Composite	
1301061-018A	SP-4-4C @ 11-11 1/2	01/09/13 13:58	Soil	07/08/13			Composite	
1301061-019A	SP-4-4D @ 2-2 1/2	01/09/13 14:26	Soil	07/08/13			Composite	
1301061-020A	SP-4-4(A, B, C, D)	01/09/13	Soil	07/08/13			S_7471BHG S_6010BCAM17 S_8270PAHSIM S_8081AOCP	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO  
**1301061**

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: MCI - McCloskey  Env.  IH  Food  Special Location of Sampling: Comm Hill  
 Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling  
 City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4-pt Composites  
 Telephone: 925.786.2667 FAX: \_\_\_\_\_  
 REPORT TO: Tom McCloskey / Chris Vertun SAMPLER: Chris Vertun P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:  10 Work Days  4 Work Days  1 Work Day  
 7 Work Days  3 Work Days  Noon - Nxt Day  
 5 Work Days  2 Work Days  2-8 Hours

SAMPLE TYPE:  Storm Water  Air  QC Level IV  
 Waste Water  Other  EDF  
 Ground Water  Excel / EDD  
 Soil

REPORT FORMAT:  QC Level IV  EDF  Excel / EDD

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
001A		SP-4-1A@2 1/2-3	1-9-13 8:42	Soil	1	4oz glass jar	} -005A 4-pt Composite
002A		SP-4-1B@6-10 1/2	9:13				
003A		SP-4-1C@12 1/2-13	9:35				
004A		SP-4-1D@4-4 1/2	15:07				
006A		SP-4-2A@2 1/2-3	1-9-13 8:54				} -010A 4-pt Composite
007A		SP-4-2B@4-4 1/2	9:59				
008A		SP-4-2C@9 1/2-10	10:48				
009A		SP-4-2D@5-5 1/2	14:51				

Relinquished By: [Signature] Print: Christopher Vertun Date: 1/9/13 Time: 15:46  
 Received By: [Signature] Print: L-D. Imbat Date: 1-9-13 Time: 15:46  
 Relinquished By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received By: \_\_\_\_\_ Print: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: D/D Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp: 2 °C Page 5 of 6  
 Log In By: [Signature] Date: 1/9/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_





483 Sinclair Frontage Road  
Milpitas, CA 95035  
Phone: 408.263.5258  
FAX: 408.263.8293  
www.torrentlab.com



### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301061

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: MCI - McCloskey Consultants  Env.  IH  Food  Special Location of Sampling: Comm Hill

Address: 420 Sycamore Valley Rd West Purpose: Stockpile Sampling

City: Danville State: CA Zip Code: 94526 Special Instructions / Comments: 4-pt Composites

Telephone: 925 895 6625 / 925 786 2425

REPORT TO: Chris Vertin / Tam McCloskey SAMPLER: Chris Vertin P.O. #: \_\_\_\_\_ EMAIL: \_\_\_\_\_

TURNAROUND TIME:

10 Work Days  4 Work Days  1 Work Day

7 Work Days  3 Work Days  Noon - Nxt Day

5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:

Storm Water  Air

Waste Water  Other

Ground Water  Soil

REPORT FORMAT:

QC Level IV

EDF

Excel / EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
011A		SP-4-3A @ 1 1/2'	1-9-13 11:11	Soil	1	4oz glass jars	} -015A' } 4 pt Composite
012A		SP-4-3B @ 8-8 1/2'	11:29				
013A		SP-4-3C @ 5-5 1/2'	11:47				
014A		SP-4-3D @ 12-12 1/2'	12:22				
016A		SP-4-4A @ 33 1/2'	13:24				} -020A' } 4 pt Composite
017A		SP-4-4B @ 7-7 1/2'	13:37				
018A		SP-4-4C @ 11-11 1/2'	13:58				
019A		SP-4-4D @ 2-2 1/2'	14:26				

TORRENT LAB

Relinquished By: Christopher Vertin Print: \_\_\_\_\_ Date: 1/9/13 Time: 15:46

Received By: L-D. Imbadi Print: \_\_\_\_\_ Date: 1-9-13 Time: 15:46

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: N/A Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp: 2 °C Page 6 of 6

Log In By: SCM/13 Date: 1/9/13 Log In Reviewed By: \_\_\_\_\_ Date: \_\_\_\_\_



Tom McCloskey  
McCloskey Consultants  
420 Sycamore Valley Road West  
Danville, California 94526  
Tel: 925 786 2667  
Email: tom@mccloskeyconsultants.com  
RE: Comm Hill

Work Order No.: 1301144

Dear Tom McCloskey:

Torrent Laboratory, Inc. received 20 sample(s) on January 21, 2013 for the analyses presented in the following Report.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

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Janice Winn-Shilling  
Sr. Project Manager

January 28, 2013

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Date



**Date:** 1/28/2013

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**Client:** McCloskey Consultants

**Project:** Comm Hill

**Work Order:** 1301144

### **CASE NARRATIVE**

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No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

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Analytical Comments for method SW6010B, 1301144-001A MS/MSD, QC Analytical Batch ID 413636,  
Note: The % recoveries for Barium are outside of laboratory control limits but % RPD is within limits. The associated LCS/LCSD is within both % Recovery and %RPD limits. No corrective action required.



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/28/13

TP-10 @ 1- 1 1/2

1301144-001

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	120	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	44	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	11	mg/Kg
Copper	SW6010B	1	0.650	5.0	31	mg/Kg
Lead	SW6010B	1	0.14	1.0	6.4	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	46	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	47	mg/Kg
Zinc	SW6010B	1	0.25	5.0	45	mg/Kg
4,4'-DDE	SW8081A	1	0.51	2.0	8.3	ug/Kg

TP-10 @ 11- 11 1/2

1301144-004

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	110	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	49	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	11	mg/Kg
Copper	SW6010B	1	0.650	5.0	24	mg/Kg
Lead	SW6010B	1	0.14	1.0	13	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	59	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	38	mg/Kg
Zinc	SW6010B	1	0.25	5.0	50	mg/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	38	ug/Kg
4,4'-DDD	SW8081A	4	3.0	8.0	3.1	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	4.1	ug/Kg
2-Methylnaphthalene	8270CSIM	1	0.007690	0.0495	0.074	mg/Kg
1-Methylnaphthalene	8270CSIM	1	0.007540	0.0495	0.054	mg/Kg
Phenanthrene	8270CSIM	1	0.009710	0.0495	0.075	mg/Kg
Anthracene	8270CSIM	1	0.009680	0.0495	0.072	mg/Kg
TPH as Diesel (SG)	SW8015B(M)	1	0.87	2.0	2.0	mg/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/28/13

TP-11 @ 0.5-1.0'

1301144-005

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Antimony	SW6010B	1	0.20	5.0	12	mg/Kg
Barium	SW6010B	1	0.07	5.0	73	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	560	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	75	mg/Kg
Copper	SW6010B	1	0.650	5.0	12	mg/Kg
Lead	SW6010B	1	0.14	1.0	8.7	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	1500	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	27	mg/Kg
Zinc	SW6010B	1	0.25	5.0	34	mg/Kg
4,4'-DDE	SW8081A	1	0.51	2.0	2.3	ug/Kg

TP-12@ 0.5-1

1301144-006

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	170	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	100	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	18	mg/Kg
Copper	SW6010B	1	0.650	5.0	27	mg/Kg
Lead	SW6010B	1	0.14	1.0	13	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	190	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	45	mg/Kg
Zinc	SW6010B	1	0.25	5.0	48	mg/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/28/13

TP-13 @ 0-1/2

1301144-007

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	150	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	91	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	16	mg/Kg
Copper	SW6010B	1	0.650	5.0	34	mg/Kg
Lead	SW6010B	1	0.14	1.0	28	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	140	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	44	mg/Kg
Zinc	SW6010B	1	0.25	5.0	65	mg/Kg

TP-14 @ 1-1 1/2

1301144-008

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	130	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	98	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	20	mg/Kg
Copper	SW6010B	1	0.650	5.0	25	mg/Kg
Lead	SW6010B	1	0.14	1.0	6.8	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	130	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	60	mg/Kg
Zinc	SW6010B	1	0.25	5.0	48	mg/Kg
4,4'-DDE	SW8081A	10	5.1	20	200	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	130	ug/Kg
gamma-Chlordane	SW8081A	1	0.79	2.0	13	ug/Kg
alpha-Chlordane	SW8081A	1	0.94	2.0	14	ug/Kg
4,4'-DDD	SW8081A	1	0.76	2.0	3.6	ug/Kg
Chlordane	SW8081A	1	10	20	88	ug/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/28/13

TP-15 @ 1-1 1/2

1301144-009

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Antimony	SW6010B	1	0.20	5.0	6.7	mg/Kg
Barium	SW6010B	1	0.07	5.0	58	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	310	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	50	mg/Kg
Copper	SW6010B	1	0.650	5.0	10	mg/Kg
Lead	SW6010B	1	0.14	1.0	4.7	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	970	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	25	mg/Kg
Zinc	SW6010B	1	0.25	5.0	25	mg/Kg

TP-16 @ 0.5-1

1301144-011

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	200	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	120	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	22	mg/Kg
Copper	SW6010B	1	0.650	5.0	28	mg/Kg
Lead	SW6010B	1	0.14	1.0	11	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	240	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	45	mg/Kg
Zinc	SW6010B	1	0.25	5.0	48	mg/Kg
alpha-Chlordane	SW8081A	10	9.4	20	22	ug/Kg
4,4'-DDE	SW8081A	10	5.1	20	7.0	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	12	ug/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13  
1301144-012

TP-17 @ 0.5-1

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	120	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	67	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	13	mg/Kg
Copper	SW6010B	1	0.650	5.0	25	mg/Kg
Lead	SW6010B	1	0.14	1.0	80	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	120	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	35	mg/Kg
Zinc	SW6010B	1	0.25	5.0	57	mg/Kg
4,4'-DDE	SW8081A	10	5.1	20	13	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	14	ug/Kg

TP-18 @ 1-1 1/2

1301144-013

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	140	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	55	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	12	mg/Kg
Copper	SW6010B	1	0.650	5.0	24	mg/Kg
Lead	SW6010B	1	0.14	1.0	7.4	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	87	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	37	mg/Kg
Zinc	SW6010B	1	0.25	5.0	48	mg/Kg
4,4'-DDE	SW8081A	10	5.1	20	16	ug/Kg





## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13

Date Reported: 01/28/13

TP-19 @ 0.5-1

1301144-014

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	93	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	210	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	34	mg/Kg
Copper	SW6010B	1	0.650	5.0	21	mg/Kg
Lead	SW6010B	1	0.14	1.0	8.1	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	550	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	34	mg/Kg
Zinc	SW6010B	1	0.25	5.0	42	mg/Kg

TP-20 @ 0.5-1

1301144-015

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Arsenic	SW6010B	1	0.25	1.7	2.2	mg/Kg
Barium	SW6010B	1	0.07	5.0	160	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	65	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	14	mg/Kg
Copper	SW6010B	1	0.650	5.0	33	mg/Kg
Lead	SW6010B	1	0.14	1.0	43	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	110	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	42	mg/Kg
Zinc	SW6010B	1	0.25	5.0	81	mg/Kg
gamma-Chlordane	SW8081A	10	7.9	20	11	ug/Kg
alpha-Chlordane	SW8081A	10	9.4	20	24	ug/Kg
4,4'-DDE	SW8081A	10	5.1	20	65	ug/Kg
4,4'-DDT	SW8081A	10	6.7	20	41	ug/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13  
1301144-016

TP-21 @ 1-1 1/2

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	130	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	63	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	14	mg/Kg
Copper	SW6010B	1	0.650	5.0	38	mg/Kg
Lead	SW6010B	1	0.14	1.0	26	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	130	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	33	mg/Kg
Zinc	SW6010B	1	0.25	5.0	61	mg/Kg

TP-22 @ 1 1/2-2

1301144-017

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	330	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	93	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	35	mg/Kg
Copper	SW6010B	1	0.650	5.0	28	mg/Kg
Lead	SW6010B	1	0.14	1.0	11	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	260	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	38	mg/Kg
Zinc	SW6010B	1	0.25	5.0	54	mg/Kg
Mercury	SW7471A	1	0.2	0.50	0.77	mg/Kg
4,4'-DDT	SW8081A	20	13	40	18	ug/Kg



## Sample Result Summary

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13  
1301144-018

TP-23 @ 0.5-1

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Antimony	SW6010B	1	0.20	5.0	8.0	mg/Kg
Barium	SW6010B	1	0.07	5.0	84	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	370	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	35	mg/Kg
Copper	SW6010B	1	0.650	5.0	21	mg/Kg
Lead	SW6010B	1	0.14	1.0	4.5	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	610	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	44	mg/Kg
Zinc	SW6010B	1	0.25	5.0	38	mg/Kg
Mercury	SW7471A	1	0.2	0.50	1.7	mg/Kg

TP-24 @ 0.5-1

1301144-019

<u>Parameters:</u>	<u>Analysis Method</u>	<u>DF</u>	<u>MDL</u>	<u>PQL</u>	<u>Results</u>	<u>Unit</u>
Barium	SW6010B	1	0.07	5.0	170	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	42	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	17	mg/Kg
Copper	SW6010B	1	0.650	5.0	30	mg/Kg
Lead	SW6010B	1	0.14	1.0	11	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	67	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	38	mg/Kg
Zinc	SW6010B	1	0.25	5.0	53	mg/Kg
4,4'-DDE	SW8081A	4	2.0	8.0	180	ug/Kg
4,4'-DDD	SW8081A	4	3.0	8.0	7.8	ug/Kg
4,4'-DDT	SW8081A	4	2.7	8.0	70	ug/Kg



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-10 @ 1- 1 1/2	<b>Lab Sample ID:</b>	1301144-001A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 / 13:58		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	120		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	44		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	11		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	31		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	6.4		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	46		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	47		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	45		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-10 @ 1- 1 1/2	<b>Lab Sample ID:</b>	1301144-001A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 / 13:58		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	1/22/13	01/22/13	1	0.61	2.0	ND		ug/Kg	413617	7658
gamma-BHC	SW8081A	1/22/13	01/22/13	1	0.61	2.0	ND		ug/Kg	413617	7658
beta-BHC	SW8081A	1/22/13	01/22/13	1	0.56	2.0	ND		ug/Kg	413617	7658
delta-BHC	SW8081A	1/22/13	01/22/13	1	0.40	2.0	ND		ug/Kg	413617	7658
Heptachlor	SW8081A	1/22/13	01/22/13	1	0.79	2.0	ND		ug/Kg	413617	7658
Aldrin	SW8081A	1/22/13	01/22/13	1	0.81	2.0	ND		ug/Kg	413617	7658
Heptachlor epoxide	SW8081A	1/22/13	01/22/13	1	0.36	2.0	ND		ug/Kg	413617	7658
gamma-Chlordane	SW8081A	1/22/13	01/22/13	1	0.79	2.0	ND		ug/Kg	413617	7658
alpha-Chlordane	SW8081A	1/22/13	01/22/13	1	0.94	2.0	ND		ug/Kg	413617	7658
Endosulfan I	SW8081A	1/22/13	01/22/13	1	0.64	2.0	ND		ug/Kg	413617	7658
4,4'-DDE	SW8081A	1/22/13	01/22/13	1	0.51	2.0	8.3		ug/Kg	413617	7658
Dieldrin	SW8081A	1/22/13	01/22/13	1	0.58	2.0	ND		ug/Kg	413617	7658
Endrin	SW8081A	1/22/13	01/22/13	1	0.86	2.0	ND		ug/Kg	413617	7658
4,4'-DDD	SW8081A	1/22/13	01/22/13	1	0.76	2.0	ND		ug/Kg	413617	7658
Endosulfan II	SW8081A	1/22/13	01/22/13	1	0.82	2.0	ND		ug/Kg	413617	7658
4,4'-DDT	SW8081A	1/22/13	01/22/13	1	0.67	2.0	ND		ug/Kg	413617	7658
Endrin aldehyde	SW8081A	1/22/13	01/22/13	1	0.46	2.0	ND		ug/Kg	413617	7658
Endosulfan sulfate	SW8081A	1/22/13	01/22/13	1	0.58	2.0	ND		ug/Kg	413617	7658
Methoxychlor	SW8081A	1/22/13	01/22/13	1	0.61	5.0	ND		ug/Kg	413617	7658
Endrin Ketone	SW8081A	1/22/13	01/22/13	1	0.58	2.0	ND		ug/Kg	413617	7658
Chlordane	SW8081A	1/22/13	01/22/13	1	10	20	ND		ug/Kg	413617	7658
Toxaphene	SW8081A	1/22/13	01/22/13	1	8.2	100	ND		ug/Kg	413617	7658
TCMX (S)	SW8081A	1/22/13	01/22/13	1	52.5	139	70.1		%	413617	7658
DCBP (S)	SW8081A	1/22/13	01/22/13	1	50.2	139	69.5		%	413617	7658



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-10 @ 11- 11 1/2	<b>Lab Sample ID:</b>	1301144-004A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 12:07		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	110		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	49		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	11		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	24		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	13		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	59		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	38		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	50		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-10 @ 11- 11 1/2	Lab Sample ID:	1301144-004A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 12:07		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/22/13	01/22/13	4	2.4	8.0	ND		ug/Kg	413617	7658
gamma-BHC	SW8081A	1/22/13	01/22/13	4	2.5	8.0	ND		ug/Kg	413617	7658
beta-BHC	SW8081A	1/22/13	01/22/13	4	2.3	8.0	ND		ug/Kg	413617	7658
delta-BHC	SW8081A	1/22/13	01/22/13	4	1.6	8.0	ND		ug/Kg	413617	7658
Heptachlor	SW8081A	1/22/13	01/22/13	4	3.2	8.0	ND		ug/Kg	413617	7658
Aldrin	SW8081A	1/22/13	01/22/13	4	3.2	8.0	ND		ug/Kg	413617	7658
Heptachlor epoxide	SW8081A	1/22/13	01/22/13	4	1.4	8.0	ND		ug/Kg	413617	7658
gamma-Chlordane	SW8081A	1/22/13	01/22/13	4	3.2	8.0	ND		ug/Kg	413617	7658
alpha-Chlordane	SW8081A	1/22/13	01/22/13	4	3.8	8.0	ND		ug/Kg	413617	7658
Endosulfan I	SW8081A	1/22/13	01/22/13	4	2.6	8.0	ND		ug/Kg	413617	7658
4,4'-DDE	SW8081A	1/22/13	01/22/13	4	2.0	8.0	38		ug/Kg	413617	7658
Dieldrin	SW8081A	1/22/13	01/22/13	4	2.3	8.0	ND		ug/Kg	413617	7658
Endrin	SW8081A	1/22/13	01/22/13	4	3.4	8.0	ND		ug/Kg	413617	7658
4,4'-DDD	SW8081A	1/22/13	01/22/13	4	3.0	8.0	3.1	J	ug/Kg	413617	7658
Endosulfan II	SW8081A	1/22/13	01/22/13	4	3.3	8.0	ND		ug/Kg	413617	7658
4,4'-DDT	SW8081A	1/22/13	01/22/13	4	2.7	8.0	4.1	J	ug/Kg	413617	7658
Endrin aldehyde	SW8081A	1/22/13	01/22/13	4	1.8	8.0	ND		ug/Kg	413617	7658
Endosulfan sulfate	SW8081A	1/22/13	01/22/13	4	2.3	8.0	ND		ug/Kg	413617	7658
Methoxychlor	SW8081A	1/22/13	01/22/13	4	2.5	20	ND		ug/Kg	413617	7658
Endrin Ketone	SW8081A	1/22/13	01/22/13	4	2.3	8.0	ND		ug/Kg	413617	7658
Chlordane	SW8081A	1/22/13	01/22/13	4	41	80	ND		ug/Kg	413617	7658
Toxaphene	SW8081A	1/22/13	01/22/13	4	33	400	ND		ug/Kg	413617	7658
TCMX (S)	SW8081A	1/22/13	01/22/13	4	52.5	139	76.9		%	413617	7658
DCBP (S)	SW8081A	1/22/13	01/22/13	4	50.2	139	71.4		%	413617	7658

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-10 @ 11- 11 1/2	<b>Lab Sample ID:</b>	1301144-004A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 12:07		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Naphthalene	8270CSIM	1/23/13	01/23/13	1	0.01220	0.0495	ND		mg/Kg	413606	7665
2-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	1	0.007690	0.0495	0.074		mg/Kg	413606	7665
1-Methylnaphthalene	8270CSIM	1/23/13	01/23/13	1	0.007540	0.0495	0.054		mg/Kg	413606	7665
Acenaphthylene	8270CSIM	1/23/13	01/23/13	1	0.008270	0.0495	ND		mg/Kg	413606	7665
Acenaphthene	8270CSIM	1/23/13	01/23/13	1	0.008440	0.0495	ND		mg/Kg	413606	7665
Fluorene	8270CSIM	1/23/13	01/23/13	1	0.009600	0.0495	ND		mg/Kg	413606	7665
Phenanthrene	8270CSIM	1/23/13	01/23/13	1	0.009710	0.0495	0.075		mg/Kg	413606	7665
Anthracene	8270CSIM	1/23/13	01/23/13	1	0.009680	0.0495	0.072		mg/Kg	413606	7665
Fluoranthene	8270CSIM	1/23/13	01/23/13	1	0.009670	0.0495	ND		mg/Kg	413606	7665
Pyrene	8270CSIM	1/23/13	01/23/13	1	0.01240	0.0495	ND		mg/Kg	413606	7665
Benz[a]anthracene	8270CSIM	1/23/13	01/23/13	1	0.007210	0.0495	ND		mg/Kg	413606	7665
Chrysene	8270CSIM	1/23/13	01/23/13	1	0.006550	0.0995	ND		mg/Kg	413606	7665
Benzo[b]fluoranthene	8270CSIM	1/23/13	01/23/13	1	0.004830	0.0495	ND		mg/Kg	413606	7665
Benzo[k]fluoranthene	8270CSIM	1/23/13	01/23/13	1	0.007840	0.0495	ND		mg/Kg	413606	7665
Benzo[a]pyrene	8270CSIM	1/23/13	01/23/13	1	0.007320	0.0495	ND		mg/Kg	413606	7665
Indeno[1,2,3-cd]pyrene	8270CSIM	1/23/13	01/23/13	1	0.01080	0.0495	ND		mg/Kg	413606	7665
Dibenz[a,h]anthracene	8270CSIM	1/23/13	01/23/13	1	0.01040	0.0495	ND		mg/Kg	413606	7665
Benzo[g,h,i]perylene	8270CSIM	1/23/13	01/23/13	1	0.01120	0.0495	ND		mg/Kg	413606	7665
2-Fluorobiphenyl (S)	8270CSIM	1/23/13	01/23/13	1	25	91.6	66.8		%	413606	7665
p-Terphenyl-d14 (S)	8270CSIM	1/23/13	01/23/13	1	24.3	129	117		%	413606	7665

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	NA	01/22/13	1	30	100	ND		ug/Kg	413584	NA
(S) 4-Bromofluorobenzene	8260TPH	NA	01/22/13	1	43.9	127	49.5		%	413584	NA

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	1/21/13	01/23/13	1	0.87	2.0	2.0	x	mg/Kg	413624	7642
Pentacosane (S)	SW8015B(M)	1/21/13	01/23/13	1	49.9	144	104		%	413624	7642

**NOTE:** x- Chromatographic pattern does not resemble typical diesel reference standard; unknown organics within diesel range quantified as diesel.





## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-11 @ 0.5-1.0'	Lab Sample ID:	1301144-005A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 / 15:12		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	12		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	73		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	560		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	75		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	12		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	8.7		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	1500		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	27		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	34		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

<b>Client Sample ID:</b>	TP-11 @ 0.5-1.0'	<b>Lab Sample ID:</b>	1301144-005A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 / 15:12		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	1/23/13	01/23/13	1	0.61	2.0	ND		ug/Kg	413650	7676
gamma-BHC	SW8081A	1/23/13	01/23/13	1	0.61	2.0	ND		ug/Kg	413650	7676
beta-BHC	SW8081A	1/23/13	01/23/13	1	0.56	2.0	ND		ug/Kg	413650	7676
delta-BHC	SW8081A	1/23/13	01/23/13	1	0.40	2.0	ND		ug/Kg	413650	7676
Heptachlor	SW8081A	1/23/13	01/23/13	1	0.79	2.0	ND		ug/Kg	413650	7676
Aldrin	SW8081A	1/23/13	01/23/13	1	0.81	2.0	ND		ug/Kg	413650	7676
Heptachlor epoxide	SW8081A	1/23/13	01/23/13	1	0.36	2.0	ND		ug/Kg	413650	7676
gamma-Chlordane	SW8081A	1/23/13	01/23/13	1	0.79	2.0	ND		ug/Kg	413650	7676
alpha-Chlordane	SW8081A	1/23/13	01/23/13	1	0.94	2.0	ND		ug/Kg	413650	7676
Endosulfan I	SW8081A	1/23/13	01/23/13	1	0.64	2.0	ND		ug/Kg	413650	7676
4,4'-DDE	SW8081A	1/23/13	01/23/13	1	0.51	2.0	2.3		ug/Kg	413650	7676
Dieldrin	SW8081A	1/23/13	01/23/13	1	0.58	2.0	ND		ug/Kg	413650	7676
Endrin	SW8081A	1/23/13	01/23/13	1	0.86	2.0	ND		ug/Kg	413650	7676
4,4'-DDD	SW8081A	1/23/13	01/23/13	1	0.76	2.0	ND		ug/Kg	413650	7676
Endosulfan II	SW8081A	1/23/13	01/23/13	1	0.82	2.0	ND		ug/Kg	413650	7676
4,4'-DDT	SW8081A	1/23/13	01/23/13	1	0.67	2.0	ND		ug/Kg	413650	7676
Endrin aldehyde	SW8081A	1/23/13	01/23/13	1	0.46	2.0	ND		ug/Kg	413650	7676
Endosulfan sulfate	SW8081A	1/23/13	01/23/13	1	0.58	2.0	ND		ug/Kg	413650	7676
Methoxychlor	SW8081A	1/23/13	01/23/13	1	0.61	5.0	ND		ug/Kg	413650	7676
Endrin Ketone	SW8081A	1/23/13	01/23/13	1	0.58	2.0	ND		ug/Kg	413650	7676
Chlordane	SW8081A	1/23/13	01/23/13	1	10	20	ND		ug/Kg	413650	7676
Toxaphene	SW8081A	1/23/13	01/23/13	1	8.2	100	ND		ug/Kg	413650	7676
TCMX (S)	SW8081A	1/23/13	01/23/13	1	52.5	139	76.8		%	413650	7676
DCBP (S)	SW8081A	1/23/13	01/23/13	1	50.2	139	74.8		%	413650	7676



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-12@ 0.5-1	<b>Lab Sample ID:</b>	1301144-006A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 / 15:47		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	170		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	100		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	18		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	27		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	13		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	190		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	45		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	48		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-12@ 0.5-1	Lab Sample ID:	1301144-006A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 / 15:47		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/23/13	01/23/13	40	24	80	ND		ug/Kg	413650	7676
gamma-BHC	SW8081A	1/23/13	01/23/13	40	25	80	ND		ug/Kg	413650	7676
beta-BHC	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
delta-BHC	SW8081A	1/23/13	01/23/13	40	16	80	ND		ug/Kg	413650	7676
Heptachlor	SW8081A	1/23/13	01/23/13	40	32	80	ND		ug/Kg	413650	7676
Aldrin	SW8081A	1/23/13	01/23/13	40	32	80	ND		ug/Kg	413650	7676
Heptachlor epoxide	SW8081A	1/23/13	01/23/13	40	14	80	ND		ug/Kg	413650	7676
gamma-Chlordane	SW8081A	1/23/13	01/23/13	40	32	80	ND		ug/Kg	413650	7676
alpha-Chlordane	SW8081A	1/23/13	01/23/13	40	38	80	ND		ug/Kg	413650	7676
Endosulfan I	SW8081A	1/23/13	01/23/13	40	26	80	ND		ug/Kg	413650	7676
4,4'-DDE	SW8081A	1/23/13	01/23/13	40	20	80	ND		ug/Kg	413650	7676
Dieldrin	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
Endrin	SW8081A	1/23/13	01/23/13	40	34	80	ND		ug/Kg	413650	7676
4,4'-DDD	SW8081A	1/23/13	01/23/13	40	30	80	ND		ug/Kg	413650	7676
Endosulfan II	SW8081A	1/23/13	01/23/13	40	33	80	ND		ug/Kg	413650	7676
4,4'-DDT	SW8081A	1/23/13	01/23/13	40	27	80	ND		ug/Kg	413650	7676
Endrin aldehyde	SW8081A	1/23/13	01/23/13	40	18	80	ND		ug/Kg	413650	7676
Endosulfan sulfate	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
Methoxychlor	SW8081A	1/23/13	01/23/13	40	25	200	ND		ug/Kg	413650	7676
Endrin Ketone	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
Chlordane	SW8081A	1/23/13	01/23/13	40	410	800	ND		ug/Kg	413650	7676
Toxaphene	SW8081A	1/23/13	01/23/13	40	330	4000	ND		ug/Kg	413650	7676
TCMX (S)	SW8081A	1/23/13	01/23/13	40	52.5	139	0.000	D	%	413650	7676
DCBP (S)	SW8081A	1/23/13	01/23/13	40	50.2	139	0.000	D	%	413650	7676

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-13 @ 0-1/2	<b>Lab Sample ID:</b>	1301144-007A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/14/13 / 16:20		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	150		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	91		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	16		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	34		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	28		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	140		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	44		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	65		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-13 @ 0-1/2	Lab Sample ID:	1301144-007A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/14/13 / 16:20		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/23/13	01/23/13	40	24	80	ND		ug/Kg	413650	7676
gamma-BHC	SW8081A	1/23/13	01/23/13	40	25	80	ND		ug/Kg	413650	7676
beta-BHC	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
delta-BHC	SW8081A	1/23/13	01/23/13	40	16	80	ND		ug/Kg	413650	7676
Heptachlor	SW8081A	1/23/13	01/23/13	40	32	80	ND		ug/Kg	413650	7676
Aldrin	SW8081A	1/23/13	01/23/13	40	32	80	ND		ug/Kg	413650	7676
Heptachlor epoxide	SW8081A	1/23/13	01/23/13	40	14	80	ND		ug/Kg	413650	7676
gamma-Chlordane	SW8081A	1/23/13	01/23/13	40	32	80	ND		ug/Kg	413650	7676
alpha-Chlordane	SW8081A	1/23/13	01/23/13	40	38	80	ND		ug/Kg	413650	7676
Endosulfan I	SW8081A	1/23/13	01/23/13	40	26	80	ND		ug/Kg	413650	7676
4,4'-DDE	SW8081A	1/23/13	01/23/13	40	20	80	ND		ug/Kg	413650	7676
Dieldrin	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
Endrin	SW8081A	1/23/13	01/23/13	40	34	80	ND		ug/Kg	413650	7676
4,4'-DDD	SW8081A	1/23/13	01/23/13	40	30	80	ND		ug/Kg	413650	7676
Endosulfan II	SW8081A	1/23/13	01/23/13	40	33	80	ND		ug/Kg	413650	7676
4,4'-DDT	SW8081A	1/23/13	01/23/13	40	27	80	ND		ug/Kg	413650	7676
Endrin aldehyde	SW8081A	1/23/13	01/23/13	40	18	80	ND		ug/Kg	413650	7676
Endosulfan sulfate	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
Methoxychlor	SW8081A	1/23/13	01/23/13	40	25	200	ND		ug/Kg	413650	7676
Endrin Ketone	SW8081A	1/23/13	01/23/13	40	23	80	ND		ug/Kg	413650	7676
Chlordane	SW8081A	1/23/13	01/23/13	40	410	800	ND		ug/Kg	413650	7676
Toxaphene	SW8081A	1/23/13	01/23/13	40	330	4000	ND		ug/Kg	413650	7676
TCMX (S)	SW8081A	1/23/13	01/23/13	40	52.5	139	0.000	D	%	413650	7676
DCBP (S)	SW8081A	1/23/13	01/23/13	40	50.2	139	0.000	D	%	413650	7676

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-14 @ 1-1 1/2	<b>Lab Sample ID:</b>	1301144-008A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 9:08		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	130		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	98		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	20		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	25		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	6.8		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	130		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	60		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	48		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-14 @ 1-1 1/2	<b>Lab Sample ID:</b>	1301144-008A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 9:08		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	200		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	130		ug/Kg	413692	7684
alpha-BHC	SW8081A	1/24/13	01/24/13	1	0.61	2.0	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	1	0.61	2.0	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	1	0.56	2.0	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	1	0.40	2.0	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	1	0.79	2.0	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	1	0.81	2.0	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	1	0.36	2.0	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	1	0.79	2.0	13		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	1	0.94	2.0	14		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	1	0.64	2.0	ND		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	1	0.58	2.0	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	1	0.86	2.0	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	1	0.76	2.0	3.6		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	1	0.82	2.0	ND		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	1	0.46	2.0	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	1	0.58	2.0	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	1	0.61	5.0	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	1	0.58	2.0	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	1	10	20	88		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	1	8.2	100	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	1	52.5	139	66.6		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	1	50.2	139	68.6		%	413692	7684





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-15 @ 1-1 1/2	<b>Lab Sample ID:</b>	1301144-009A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 10:09		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	6.7		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	58		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	310		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	50		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	10		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	4.7		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	970		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	25		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	25		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-15 @ 1-1 1/2	<b>Lab Sample ID:</b>	1301144-009A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 10:09		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	4	2.4	8.0	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	4	2.5	8.0	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	4	1.6	8.0	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	4	3.2	8.0	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	4	3.2	8.0	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	4	1.4	8.0	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	4	3.2	8.0	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	4	3.8	8.0	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	4	2.6	8.0	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	4	2.0	8.0	ND		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	4	3.4	8.0	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	4	3.0	8.0	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	4	3.3	8.0	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	4	2.7	8.0	ND		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	4	1.8	8.0	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	4	2.5	20	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	4	41	80	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	4	33	400	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	4	52.5	139	53.9		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	4	50.2	139	63.7		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-16 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-011A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 11:07		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	200		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	120		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	22		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	28		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	11		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	240		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	45		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	48		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-16 @ 0.5-1	Lab Sample ID:	1301144-011A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 11:07		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	10	5.6	20	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	10	4.0	20	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	10	8.1	20	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	10	3.6	20	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	10	9.4	20	22		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	10	6.4	20	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	7.0	J	ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	10	8.6	20	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	10	7.6	20	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	10	8.2	20	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	12	J	ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	10	4.6	20	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	10	6.1	50	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	10	100	200	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	10	82	1000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	10	52.5	139	66.4		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	10	50.2	139	61.1		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-17 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-012A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 13:37		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	120		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	67		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	13		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	25		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	80		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	120		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	35		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	57		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-17 @ 0.5-1	Lab Sample ID:	1301144-012A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 13:37		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	10	5.6	20	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	10	4.0	20	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	10	8.1	20	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	10	3.6	20	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	10	9.4	20	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	10	6.4	20	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	13	J	ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	10	8.6	20	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	10	7.6	20	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	10	8.2	20	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	14	J	ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	10	4.6	20	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	10	6.1	50	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	10	100	200	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	10	82	1000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	10	52.5	139	70.8		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	10	50.2	139	69.3		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-18 @ 1-1 1/2	<b>Lab Sample ID:</b>	1301144-013A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 14:25		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	140		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	55		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	12		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	24		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	7.4		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	87		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	37		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	48		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-18 @ 1-1 1/2	Lab Sample ID:	1301144-013A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 14:25		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	10	5.6	20	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	10	4.0	20	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	10	8.1	20	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	10	3.6	20	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	10	9.4	20	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	10	6.4	20	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	16	J	ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	10	8.6	20	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	10	7.6	20	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	10	8.2	20	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	ND		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	10	4.6	20	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	10	6.1	50	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	10	100	200	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	10	82	1000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	10	52.5	139	69.8		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	10	50.2	139	65.5		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-19 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-014A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 15:39		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	93		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	210		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	34		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	21		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	8.1		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	550		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	34		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	42		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-19 @ 0.5-1	Lab Sample ID:	1301144-014A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 15:39		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	10	5.6	20	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	10	4.0	20	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	10	8.1	20	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	10	3.6	20	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	10	9.4	20	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	10	6.4	20	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	ND		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	10	8.6	20	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	10	7.6	20	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	10	8.2	20	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	ND		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	10	4.6	20	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	10	6.1	50	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	10	100	200	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	10	82	1000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	10	52.5	139	80.2		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	10	50.2	139	76.6		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-20 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-015A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 16:09		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	2.2		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	160		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	65		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	14		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	33		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	43		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	110		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	42		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	81		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-20 @ 0.5-1	Lab Sample ID:	1301144-015A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 16:09		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	10	5.6	20	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	10	4.0	20	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	10	8.1	20	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	10	3.6	20	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	10	7.9	20	11	J	ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	10	9.4	20	24		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	10	6.4	20	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	65		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	10	8.6	20	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	10	7.6	20	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	10	8.2	20	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	41		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	10	4.6	20	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	10	6.1	50	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	10	100	200	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	10	82	1000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	10	52.5	139	67.8		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	10	50.2	139	73.5		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-21 @ 1-1 1/2	Lab Sample ID:	1301144-016A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/15/13 / 16:39		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	130		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	63		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	14		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	38		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	26		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	130		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	33		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	61		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-21 @ 1-1 1/2	<b>Lab Sample ID:</b>	1301144-016A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/15/13 / 16:39		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	10	6.1	20	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	10	5.6	20	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	10	4.0	20	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	10	8.1	20	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	10	3.6	20	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	10	7.9	20	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	10	9.4	20	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	10	6.4	20	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	10	5.1	20	ND		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	10	8.6	20	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	10	7.6	20	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	10	8.2	20	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	10	6.7	20	ND		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	10	4.6	20	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	10	6.1	50	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	10	5.8	20	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	10	100	200	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	10	82	1000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	10	52.5	139	64.9		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	10	50.2	139	74.1		%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-22 @ 1 1/2-2	<b>Lab Sample ID:</b>	1301144-017A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 9:27		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	330		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	93		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	35		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	28		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	11		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	260		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	38		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	54		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	0.77		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-22 @ 1 1/2-2	Lab Sample ID:	1301144-017A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/16/13 / 9:27		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	20	12	40	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	20	12	40	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	20	11	40	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	20	8.1	40	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	20	16	40	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	20	16	40	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	20	7.2	40	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	20	16	40	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	20	19	40	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	20	13	40	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	20	10	40	ND		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	20	12	40	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	20	17	40	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	20	15	40	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	20	16	40	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	20	13	40	18	J	ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	20	9.2	40	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	20	12	40	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	20	12	100	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	20	12	40	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	20	210	400	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	20	160	2000	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	20	52.5	139	0.000	D	%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	20	50.2	139	0.000	D	%	413692	7684

**NOTE:** Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous/dark color extract)





## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-23 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-018A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 10:14		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	8.0		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	84		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	370		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	35		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	21		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	4.5		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	610		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	44		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	38		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	1.7		mg/Kg	413597	7661



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-23 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-018A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 10:14		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	1/24/13	01/24/13	1	0.61	2.0	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	1	0.61	2.0	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	1	0.56	2.0	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	1	0.40	2.0	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	1	0.79	2.0	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	1	0.81	2.0	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	1	0.36	2.0	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	1	0.79	2.0	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	1	0.94	2.0	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	1	0.64	2.0	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	1	0.51	2.0	ND		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	1	0.58	2.0	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	1	0.86	2.0	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	1	0.76	2.0	ND		ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	1	0.82	2.0	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	1	0.67	2.0	ND		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	1	0.46	2.0	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	1	0.58	2.0	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	1	0.61	5.0	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	1	0.58	2.0	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	1	10	20	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	1	8.2	100	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	1	52.5	139	64.3		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	1	50.2	139	56.6		%	413692	7684



## SAMPLE RESULTS

**Report prepared for:** Tom McCloskey  
McCloskey Consultants

**Date Received:** 01/21/13  
**Date Reported:** 01/28/13

<b>Client Sample ID:</b>	TP-24 @ 0.5-1	<b>Lab Sample ID:</b>	1301144-019A
<b>Project Name/Location:</b>	Comm Hill	<b>Sample Matrix:</b>	Soil
<b>Project Number:</b>			
<b>Date/Time Sampled:</b>	01/16/13 / 11:30		
<b>Tag Number:</b>	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	1/22/13	01/23/13	1	0.20	5.0	ND		mg/Kg	413636	7666
Arsenic	SW6010B	1/22/13	01/23/13	1	0.25	1.7	ND		mg/Kg	413636	7666
Barium	SW6010B	1/22/13	01/23/13	1	0.07	5.0	170		mg/Kg	413636	7666
Beryllium	SW6010B	1/22/13	01/23/13	1	0.0800	2.0	ND		mg/Kg	413636	7666
Cadmium	SW6010B	1/22/13	01/23/13	1	0.0550	1.0	ND		mg/Kg	413636	7666
Chromium	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	42		mg/Kg	413636	7666
Cobalt	SW6010B	1/22/13	01/23/13	1	0.055	5.0	17		mg/Kg	413636	7666
Copper	SW6010B	1/22/13	01/23/13	1	0.650	5.0	30		mg/Kg	413636	7666
Lead	SW6010B	1/22/13	01/23/13	1	0.14	1.0	11		mg/Kg	413636	7666
Molybdenum	SW6010B	1/22/13	01/23/13	1	0.120	5.0	ND		mg/Kg	413636	7666
Nickel	SW6010B	1/22/13	01/23/13	1	0.0500	5.0	67		mg/Kg	413636	7666
Selenium	SW6010B	1/22/13	01/23/13	1	0.42	5.0	ND		mg/Kg	413636	7666
Silver	SW6010B	1/22/13	01/23/13	1	0.37	1.0	ND		mg/Kg	413636	7666
Thallium	SW6010B	1/22/13	01/23/13	1	0.49	5.0	ND		mg/Kg	413636	7666
Vanadium	SW6010B	1/22/13	01/23/13	1	0.18	5.0	38		mg/Kg	413636	7666
Zinc	SW6010B	1/22/13	01/23/13	1	0.25	5.0	53		mg/Kg	413636	7666

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	1/22/13	01/23/13	1	0.2	0.50	ND		mg/Kg	413597	7661



## SAMPLE RESULTS

Report prepared for: Tom McCloskey  
McCloskey Consultants

Date Received: 01/21/13  
Date Reported: 01/28/13

Client Sample ID:	TP-24 @ 0.5-1	Lab Sample ID:	1301144-019A
Project Name/Location:	Comm Hill	Sample Matrix:	Soil
Project Number:			
Date/Time Sampled:	01/16/13 / 11:30		
Tag Number:	Comm Hill		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
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*The results shown below are reported using their MDL.*

alpha-BHC	SW8081A	1/24/13	01/24/13	4	2.4	8.0	ND		ug/Kg	413692	7684
gamma-BHC	SW8081A	1/24/13	01/24/13	4	2.5	8.0	ND		ug/Kg	413692	7684
beta-BHC	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
delta-BHC	SW8081A	1/24/13	01/24/13	4	1.6	8.0	ND		ug/Kg	413692	7684
Heptachlor	SW8081A	1/24/13	01/24/13	4	3.2	8.0	ND		ug/Kg	413692	7684
Aldrin	SW8081A	1/24/13	01/24/13	4	3.2	8.0	ND		ug/Kg	413692	7684
Heptachlor epoxide	SW8081A	1/24/13	01/24/13	4	1.4	8.0	ND		ug/Kg	413692	7684
gamma-Chlordane	SW8081A	1/24/13	01/24/13	4	3.2	8.0	ND		ug/Kg	413692	7684
alpha-Chlordane	SW8081A	1/24/13	01/24/13	4	3.8	8.0	ND		ug/Kg	413692	7684
Endosulfan I	SW8081A	1/24/13	01/24/13	4	2.6	8.0	ND		ug/Kg	413692	7684
4,4'-DDE	SW8081A	1/24/13	01/24/13	4	2.0	8.0	180		ug/Kg	413692	7684
Dieldrin	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
Endrin	SW8081A	1/24/13	01/24/13	4	3.4	8.0	ND		ug/Kg	413692	7684
4,4'-DDD	SW8081A	1/24/13	01/24/13	4	3.0	8.0	7.8	J	ug/Kg	413692	7684
Endosulfan II	SW8081A	1/24/13	01/24/13	4	3.3	8.0	ND		ug/Kg	413692	7684
4,4'-DDT	SW8081A	1/24/13	01/24/13	4	2.7	8.0	70		ug/Kg	413692	7684
Endrin aldehyde	SW8081A	1/24/13	01/24/13	4	1.8	8.0	ND		ug/Kg	413692	7684
Endosulfan sulfate	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
Methoxychlor	SW8081A	1/24/13	01/24/13	4	2.5	20	ND		ug/Kg	413692	7684
Endrin Ketone	SW8081A	1/24/13	01/24/13	4	2.3	8.0	ND		ug/Kg	413692	7684
Chlordane	SW8081A	1/24/13	01/24/13	4	41	80	ND		ug/Kg	413692	7684
Toxaphene	SW8081A	1/24/13	01/24/13	4	33	400	ND		ug/Kg	413692	7684
TCMX (S)	SW8081A	1/24/13	01/24/13	4	52.5	139	71.6		%	413692	7684
DCBP (S)	SW8081A	1/24/13	01/24/13	4	50.2	139	68.9		%	413692	7684



### MB Summary Report

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	01/22/13	<b>Analytical Batch:</b>	413584
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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TPH(Gasoline) 30 100 ND  
 (S) 4-Bromofluorobenzene 76.0

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_TPHSG	<b>Prep Date:</b>	01/21/13	<b>Prep Batch:</b>	7642
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	01/21/13	<b>Analytical Batch:</b>	413566
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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TPH as Diesel (SG) 0.87 2.0 1.4  
 TPH as Motor Oil (SG) 1.3 10 10  
 Pentacosane (S) 106

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7658
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/22/13	<b>Analytical Batch:</b>	413617
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
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alpha-BHC 0.61 2.0 ND  
 gamma-BHC 0.61 2.0 ND  
 beta-BHC 0.56 2.0 ND  
 delta-BHC 0.40 2.0 ND  
 Heptachlor 0.79 2.0 ND  
 Aldrin 0.81 2.0 ND  
 Heptachlor epoxide 0.36 2.0 ND  
 gamma-Chlordane 0.79 2.0 ND  
 alpha-Chlordane 0.94 2.0 ND  
 Endosulfan I 0.64 2.0 ND  
 4,4'-DDE 0.51 2.0 ND  
 Dieldrin 0.58 2.0 ND  
 Endrin 0.86 2.0 ND  
 4,4'-DDD 0.76 2.0 ND  
 Endosulfan II 0.82 2.0 ND  
 4,4'-DDT 0.67 2.0 ND  
 Endrin aldehyde 0.46 2.0 ND  
 Endosulfan sulfate 0.58 2.0 ND



## MB Summary Report

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7658
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/22/13	<b>Analytical Batch:</b>	413617
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Methoxychlor	0.61	5.0	ND		
Endrin Ketone	0.58	2.0	ND		
Chlordane	10	20	ND		
Toxaphene	8.2	100	ND		
TCMX (S)			69.4		
DCBP (S)			70.8		

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7661
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413597
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Mercury	0.2	0.50	ND		



## MB Summary Report

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7665
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413606
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Naphthalene	0.01220	0.0495	ND		
2-Methylnaphthalene	0.007690	0.0495	ND		
1-Methylnaphthalene	0.007540	0.0495	ND		
Acenaphthylene	0.008270	0.0495	ND		
Acenaphthene	0.008440	0.0495	ND		
Fluorene	0.009600	0.0495	ND		
Phenanthrene	0.009710	0.0495	ND		
Anthracene	0.009680	0.0495	ND		
Fluoranthene	0.009670	0.0495	ND		
Pyrene	0.01240	0.0495	ND		
Benz[a]anthracene	0.007210	0.0495	ND		
Chrysene	0.006550	0.0995	ND		
Benzo[b]fluoranthene	0.004830	0.0495	ND		
Benzo[k]fluoranthene	0.007840	0.0495	ND		
Benzo[a]pyrene	0.007320	0.0495	ND		
Indeno[1,2,3-cd]pyrene	0.01080	0.0495	ND		
Dibenz[a,h]anthracene	0.01040	0.0495	ND		
Benzo[g,h,i]perylene	0.01120	0.0495	ND		
2-Fluorobiphenyl (S)			72.2		
p-Terphenyl-d14 (S)			129		



## MB Summary Report

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7666
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413636
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Antimony	0.20	5.0	ND		
Arsenic	0.25	1.7	ND		
Barium	0.07	5.0	0.57		
Beryllium	0.0800	2.0	ND		
Cadmium	0.055	1.0	ND		
Chromium	0.050	5.0	0.19		
Cobalt	0.055	5.0	0.085		
Copper	0.65	5.0	ND		
Lead	0.14	1.0	0.29		
Molybdenum	0.12	5.0	0.12		
Nickel	0.050	5.0	0.21		
Selenium	0.42	5.0	ND		
Silver	0.37	1.0	ND		
Thallium	0.49	5.0	ND		
Vanadium	0.18	5.0	ND		
Zinc	0.25	5.0	0.51		





### MB Summary Report

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7676
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413650
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.61	2.0	ND	
gamma-BHC	0.61	2.0	ND	
beta-BHC	0.56	2.0	ND	
delta-BHC	0.40	2.0	ND	
Heptachlor	0.79	2.0	ND	
Aldrin	0.81	2.0	ND	
Heptachlor epoxide	0.36	2.0	ND	
gamma-Chlordane	0.79	2.0	ND	
alpha-Chlordane	0.94	2.0	ND	
Endosulfan I	0.64	2.0	ND	
4,4'-DDE	0.51	2.0	ND	
Dieldrin	0.58	2.0	ND	
Endrin	0.86	2.0	ND	
4,4'-DDD	0.76	2.0	ND	
Endosulfan II	0.82	2.0	ND	
4,4'-DDT	0.67	2.0	ND	
Endrin aldehyde	0.46	2.0	ND	
Endosulfan sulfate	0.58	2.0	ND	
Methoxychlor	0.61	5.0	ND	
Endrin Ketone	0.58	2.0	ND	
Chlordane	10	20	ND	
Toxaphene	8.2	100	ND	
TCMX (S)			71.0	
DCBP (S)			70.1	

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_TPH	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7677
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413624
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel	0.656	2.0	1.3	
TPH as Motor Oil	1.36	10	3.1	
Pentacosane (S)			104	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	NA	<b>Prep Date:</b>	NA	<b>Prep Batch:</b>	NA
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	8260TPH	<b>Analyzed Date:</b>	01/22/13	<b>Analytical Batch:</b>	413584
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	30	100	ND	1000	93.6	84.4	10.3	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			76.0	50	68.7	65.2		43.9 - 127		

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_TPHSG	<b>Prep Date:</b>	01/21/13	<b>Prep Batch:</b>	7642
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	01/21/13	<b>Analytical Batch:</b>	413566
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.87	2.0	1.4	33.33	72.8	80.3	9.80	50.8 - 111	30	
Pentacosane (S)			10	100	111	117		49.9 - 144		

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7658
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/22/13	<b>Analytical Batch:</b>	413617
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	107	110	3.20	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	109	112	3.09	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	103	107	3.11	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	99.4	103	3.43	44 - 130	30	
Endrin	0.86	2.0	ND	20	105	109	3.34	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	110	116	5.58	52.8 - 134	30	
TCMX (S)			ND	350	74.2	76.1		52.5 - 139		
DCBP (S)			ND	350	76.8	79.7		50.2 - 139		

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7661
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413597
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	94.0	94.7	0.707	80.5 - 133	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_PAHSIM	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7665
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8270C	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413606
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Acenaphthene	0.008440	0.0495	ND	0.2500	83.2	82.7	0.622	11.9 - 106	30	
Pyrene	0.01240	0.0495	ND	0.2500	96.1	94.2	1.88	16.9 - 136	30	
2-Fluorobiphenyl (S)			ND	5	74.0	74.3		25 - 91.6		
p-Terphenyl-d14 (S)			ND	5	127	125		24.3 - 129		

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7666
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413636
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	94.6	95.7	1.16	30.7 - 130	30	
Arsenic	0.25	1.7	ND	50	93.6	93.5	0.160	71 - 121	30	
Barium	0.07	5.0	0.57	50	95.8	97.8	2.05	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	94.0	102	8.84	73.3 - 115	30	
Cadmium	0.055	1.0	ND	50	91.0	93.2	2.34	68.7 - 110	30	
Chromium	0.050	5.0	0.19	50	94.6	97.1	2.63	76 - 116	30	
Cobalt	0.055	5.0	0.085	50	92.9	95.1	2.38	57.4 - 122	30	
Copper	0.65	5.0	ND	50	95.3	98.1	2.92	74.8 - 119	30	
Lead	0.14	1.0	0.29	50	93.5	94.4	0.916	67.9 - 118	30	
Molybdenum	0.12	5.0	0.12	50	96.2	97.4	1.20	62.9 - 123	30	
Nickel	0.050	5.0	0.21	50	92.6	95.1	2.63	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	91.3	90.3	1.08	62 - 111	30	
Silver	0.37	1.0	ND	50	91.8	94.0	2.31	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	92.5	93.5	1.06	39.2 - 125	30	
Vanadium	0.18	5.0	ND	50	95.0	97.0	2.05	65.8 - 122	30	
Zinc	0.25	5.0	0.51	50	91.3	94.2	3.09	59.9 - 122	30	



## LCS/LCSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_OCP	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7676
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8081A	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413650
<b>Units:</b>	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	20	76.5	80.4	4.94	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	20	88.9	95.8	7.49	63.6 - 117	30	
Aldrin	0.81	2.0	ND	20	76.6	80.0	4.36	53 - 123	30	
Dieldrin	0.58	2.0	ND	20	104	116	11.4	44 - 130	30	
Endrin	0.86	2.0	ND	20	79.6	85.9	7.59	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	20	81.9	88.3	7.57	52.8 - 134	30	
TCMX (S)			ND	350	55.8	58.8		52.5 - 139		
DCBP (S)			ND	350	57.0	60.2		50.2 - 139		

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3545_TPH	<b>Prep Date:</b>	01/23/13	<b>Prep Batch:</b>	7677
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW8015B(M)	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413624
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel	0.656	2	1.3	33.33	77.5	68.9	11.8	50.3 - 115	30	
Pentacosane (S)			3.1	100	107	96.1		57.9 - 129		



## MS/MSD Summary Report

*Raw values are used in quality control assessment.*

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	7471	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7661
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW7471A	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413597
<b>Spiked Sample:</b>	1301144-001A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	0.00142	1.25	90.5	89.9	0.669	60 - 140	30	

<b>Work Order:</b>	1301144	<b>Prep Method:</b>	3050	<b>Prep Date:</b>	01/22/13	<b>Prep Batch:</b>	7666
<b>Matrix:</b>	Soil	<b>Analytical Method:</b>	SW6010B	<b>Analyzed Date:</b>	01/23/13	<b>Analytical Batch:</b>	413636
<b>Spiked Sample:</b>	1301144-001A						
<b>Units:</b>	mg/Kg						

Parameters	MDL	PQL	Sample Conc.	Spike Conc.	MS % Recovery	MSD % Recovery	MS/MSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	0.047	50	71.8	77.1	0.794	30.7 - 130	30	
Arsenic	0.25	1.7	0.00	50	78.7	79.2	0.570	71 - 121	30	
Barium	0.07	5.0	2.4	50	65.2	72.1	2.30	70.2 - 130	30	S
Beryllium	0.0800	2.0	0.00	50	88.1	87.2	0.913	73.3 - 115	30	
Cadmium	0.055	1.0	0.00	50	86.7	88.8	2.34	68.7 - 110	30	
Chromium	0.050	5.0	0.88	50	90.0	84.3	3.25	76 - 116	30	
Cobalt	0.055	5.0	0.22	50	78.1	82.1	4.02	57.4 - 122	30	
Copper	0.65	5.0	0.61	50	100	90.1	6.34	74.8 - 119	30	
Lead	0.14	1.0	0.13	50	82.8	85.5	2.81	67.9 - 118	30	
Molybdenum	0.12	5.0	0.00	50	86.1	88.0	2.16	62.9 - 123	30	
Nickel	0.050	5.0	0.93	50	73.8	92.0	10.2	61.5 - 122	30	
Selenium	0.42	5.0	0.00	50	82.3	84.5	2.63	62 - 111	30	
Silver	0.37	1.0	0.00	50	89.8	92.4	2.83	81.1 - 109	30	
Thallium	0.49	5.0	0.00	50	78.8	79.9	1.40	39.2 - 125	30	
Vanadium	0.18	5.0	0.95	50	84.7	85.2	0.111	65.8 - 122	30	
Zinc	0.25	5.0	0.90	50	82.4	78.7	1.94	59.9 - 122	30	



## Laboratory Qualifiers and Definitions

### DEFINITIONS:

<b>Accuracy/Bias (% Recovery)</b> - The closeness of agreement between an observed value and an accepted reference value.
<b>Blank (Method/Preparation Blank)</b> -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
<b>Duplicate</b> - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
<b>Laboratory Control Sample (LCS ad LCSD)</b> - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
<b>Matrix</b> - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
<b>Matrix Spike (MS/MSD)</b> - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
<b>Method Detection Limit (MDL)</b> - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
<b>Practical Quantitation Limit (PQL)</b> - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
<b>Precision (%RPD)</b> - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
<b>Surrogate (S) or (Surr)</b> - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
<b>Tentatively Identified Compound (TIC)</b> - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
<b>Units:</b> the unit of measure used to express the reported result - <b>mg/L</b> and <b>mg/Kg</b> (equivalent to PPM - parts per million in <b>liquid</b> and <b>solid</b> ), <b>ug/L</b> and <b>ug/Kg</b> (equivalent to PPB - parts per billion in <b>liquid</b> and <b>solid</b> ), <b>ug/m3</b> , <b>mg.m3</b> , <b>ppbv</b> and <b>ppmv</b> (all units of measure for reporting concentrations in air), % (equivalent to 10000 ppm or 1,000,000 ppb), <b>ug/Wipe</b> ( concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

### LABORATORY QUALIFIERS:

<p><b>B</b> - Indicates when the analyte is found in the associated method or preparation blank</p> <p><b>D</b> - Surrogate is not recoverable due to the necessary dilution of the sample</p> <p><b>E</b> - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.</p> <p><b>H</b>- Indicates that the recommended holding time for the analyte or compound has been exceeded</p> <p><b>J</b>- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative</p> <p><b>NA</b> - Not Analyzed</p> <p><b>N/A</b> - Not Applicable</p> <p><b>NR</b> - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added</p> <p><b>R</b>- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts</p> <p><b>S</b>- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative</p> <p><b>X</b> -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.</p>
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## Sample Receipt Checklist

Client Name: McCloskey Consultants

Project Name: Comm Hill

Work Order No.: 1301144

Date and Time Received: 1/21/2013 15:47

Received By: ng

Physically Logged By: lorna

Checklist Completed By: lorna

Carrier Name: Torrent Courier

### Chain of Custody (COC) Information

Chain of custody present? Yes  
Chain of custody signed when relinquished and received? Yes  
Chain of custody agrees with sample labels? Yes  
Custody seals intact on sample bottles? Not Present

### Sample Receipt Information

Custody seals intact on shipping container/cooler? Not Present  
Shipping Container/Cooler In Good Condition? Yes  
Samples in proper container/bottle? Yes  
Samples containers intact? Yes  
Sufficient sample volume for indicated test? Yes

### Sample Preservation and Hold Time (HT) Information

All samples received within holding time? Yes  
Container/Temp Blank temperature in compliance? Yes Temperature: 3 °C  
Water-VOA vials have zero headspace? No VOA vials submitted  
Water-pH acceptable upon receipt? N/A  
pH Checked by: n/a pH Adjusted by: n/a



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants

**QC Level:**

**Project Name:** Comm Hill

**TAT Requested:** 5+ day:0

**Project # :**

**Date Received:** 1/21/2013

**Report Due Date:** 1/28/2013

**Time Received:** 15:47

**Comments:** 5 day TAT. Please send report to both Tom McCloskey and Chris Vertin.

**Work Order # :** 1301144

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301144-001A	TP-10 @ 1- 1 1/2	01/14/13 13:58	Soil	07/20/13			S_6010BCAM17 S_7471BHG S_8081AOCP	
1301144-002A	TP-10 @ 2 1/2-3	01/14/13 14:21	Soil	07/20/13			Hold Samples	
1301144-003A	TP-10 @ 5-5 1/2	01/15/13 11:58	Soil	07/20/13			Hold Samples	
1301144-004A	TP-10 @ 11- 11 1/2	01/15/13 12:07	Soil	07/20/13			S_7471BHG S_TPHDSG S_8081AOCP S_8270PAHSIM S_6010BCAM17 S_GCMS-GRO	
<b>Sample Note:</b> CAM 17 , 8081, TPHg , 8270SIM, TPHDSG								
1301144-005A	TP-11 @ 0.5-1.0'	01/14/13 15:12	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOCP	
1301144-006A	TP-12@ 0.5-1	01/14/13 15:47	Soil	07/20/13			S_7471BHG S_8081AOCP S_6010BCAM17	
1301144-007A	TP-13 @ 0-1/2	01/14/13 16:20	Soil	07/20/13			S_7471BHG S_8081AOCP S_6010BCAM17	
1301144-008A	TP-14 @ 1-1 1/2	01/15/13 9:08	Soil	07/20/13			S_7471BHG S_8081AOCP S_6010BCAM17	
1301144-009A	TP-15 @ 1-1 1/2	01/15/13 10:09	Soil	07/20/13			S_7471BHG S_8081AOCP S_6010BCAM17	





## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants

**QC Level:**

**Project Name:** Comm Hill

**TAT Requested:** 5+ day:0

**Project # :**

**Date Received:** 1/21/2013

**Report Due Date:** 1/28/2013

**Time Received:** 15:47

**Comments:** 5 day TAT. Please send report to both Tom McCloskey and Chris Vertin.

**Work Order # :** **1301144**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301144-010A	TP-15 @ 2 1/2 -3	01/15/13 10:13	Soil	07/20/13			Hold Samples	
1301144-011A	TP-16 @ 0.5-1	01/15/13 11:07	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301144-012A	TP-17 @ 0.5-1	01/15/13 13:37	Soil	07/20/13			S_7471BHG S_8081AOC S_6010BCAM17	
1301144-013A	TP-18 @ 1-1 1/2	01/15/13 14:25	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301144-014A	TP-19 @ 0.5-1	01/15/13 15:39	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301144-015A	TP-20 @ 0.5-1	01/15/13 16:09	Soil	07/20/13			S_7471BHG S_8081AOC S_6010BCAM17	
1301144-016A	TP-21 @ 1-1 1/2	01/15/13 16:39	Soil	07/20/13			S_7471BHG S_8081AOC S_6010BCAM17	
1301144-017A	TP-22 @ 1 1/2-2	01/16/13 9:27	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301144-018A	TP-23 @ 0.5-1	01/16/13 10:14	Soil	07/20/13			S_7471BHG S_6010BCAM17 S_8081AOC	
1301144-019A	TP-24 @ 0.5-1	01/16/13 11:30	Soil	07/20/13			S_7471BHG S_8081AOC	



## Login Summary Report

**Client ID:** TL5324      McCloskey Consultants

**QC Level:**

**Project Name:** Comm Hill

**TAT Requested:** 5+ day:0

**Project # :**

**Date Received:** 1/21/2013

**Report Due Date:** 1/28/2013

**Time Received:** 15:47

**Comments:** 5 day TAT. Please send report to both Tom McCloskey and Chris Vertin.

**Work Order # :** **1301144**

<u>WO Sample ID</u>	<u>Client Sample ID</u>	<u>Collection Date/Time</u>	<u>Matrix</u>	<u>Scheduled Disposal</u>	<u>Sample On Hold</u>	<u>Test On Hold</u>	<u>Requested Tests</u>	<u>Subbed</u>
1301144-020A	TP-24 @ 1 1/2-2	01/16/13 11:43	Soil	07/20/13			S_6010BCAM17 Hold Samples	



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com

### CHAIN OF CUSTODY

LAB WORK ORDER NO

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

1301144

Company Name: MCI-McCluskey       Env.  IH  Food  Special      Location of Sampling: Comm Hill  
 Address: 420 Sycamore Valley Rd West.      Purpose: Fill Sampling  
 City: Danville      State: CA      Zip Code: 94526      Special Instructions / Comments:  
 Telephone: 925.786.2667      FAX:  
 REPORT TO: Tom McCluskey / Chris Vertin      SAMPLER: Chris Vertin      P.O. #:      EMAIL:

TURNAROUND TIME:      SAMPLE TYPE:      REPORT FORMAT:

10 Work Days     4 Work Days     1 Work Day       Storm Water     Air       QC Level IV  
 7 Work Days     3 Work Days     Noon - Nxt Day     Waste Water     Other       EDF  
 5 Work Days     2 Work Days     2 - 8 Hours       Ground Water     Soil       Excel / EDD

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	Metals- (AM17)	OCBs (8081)	TPH gas (8260)	TPH dissolved w/ silica	TPH dissolved w/ column	Semi VOCs (8270 SIM)	REMARKS
001A		TP-10c 1-1/2'	1/14/13 13:58	Soil	1	glass jar	X	X					
002A		TP-10c 2 1/2-3'	1 14:21										Hold
003A		TP-10c 5-5 1/2'	1/15/13 11:58										Hold
004A		TP-10c 11-11 1/2'	1 12:07				X	X	X	X	X		
005A		TP-11c 0.5-1.0'	1/14/13 15:12				X	X					
006A		TP-12c 0.5-1'	1 15:47				X	X					
007A		TP-13c 0-1/2'	1 16:20				X	X					
008A		TP-14c 1-1 1/2'	1/15/13 9:08				X	X					
009A		TP-15c 1-1 1/2'	1 10:09				X	X					
010A		TP-15c 2 1/2-3'	1 10:13										Hold

TORRENT LAB

Relinquished By: Christopher Vertin      Print: Christopher Vertin      Date: 1/21/13      Time: 15:47  
 Received By: [Signature]      Print: NAYAN A      Date: 1-21-13      Time: 15:47  
 Relinquished By:      Print:      Date:      Time:      Received By:      Print:      Date:      Time:

Were Samples Received in Good Condition?  Yes  NO      Samples on Ice?  Yes  NO      Method of Shipment: Torrent plus      Sample seals intact?  Yes  NO  N/A  
 NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made.      Temp: 3 °C      Page 1 of 3  
 Log In By: [Signature]      Date: 1-21-13      Log In Reviewed By:      Date:



483 Sinclair Frontage Road  
 Milpitas, CA 95035  
 Phone: 408.263.5258  
 FAX: 408.263.8293  
 www.torrentlab.com



### CHAIN OF CUSTODY

LAB WORK ORDER NO

1301144

NOTE: SHADED AREAS ARE FOR TORRENT LAB USE ONLY

Company Name: MCI - McChesley  Env.  IH  Food  Special Location of Sampling: Commu Hill

Address: 420 Sycamore Valley Rd West Purpose: Fill Sampling

City: Danville State: CA Zip Code: 94526 Special Instructions / Comments:

Telephone: 925.786.2667 FAX:

REPORT TO: Tom McChesley / Chris Vertin SAMPLER: Chris Vertin P.O. #: EMAIL:

TURNAROUND TIME:

10 Work Days  4 Work Days  1 Work Day

7 Work Days  3 Work Days  Noon - Nxt Day

5 Work Days  2 Work Days  2 - 8 Hours

SAMPLE TYPE:

Storm Water  Air  QC Level IV

Waste Water  Other  EDF

Ground Water  Excel / EDD

Soil

REPORT FORMAT:

Metals - CML17

CCP's 8081

ANALYSIS REQUESTED

LAB ID	CANISTER I.D.	CLIENT'S SAMPLE I.D.	DATE / TIME SAMPLED	MATRIX	# OF CONT	CONT TYPE	REMARKS
011A		TP-16 @ 0.5-1'	1/15/13 11:07	Soil	1	glass Jar	X X
012A		TP-17 @ 0.5-1'	13:37 <del>13:37</del>				X X
013A		TP-18 @ 1-1 1/2'	14:25				X X
014A		TP-19 @ 0.5-1'	15:39				X X
015A		TP-20 @ 0.5-1'	16:09				X X
016A		TP-21 @ 1-1 1/2'	16:39				X X
017A		TP-22 @ 1 1/2-2'	1/16/13 9:27				X X
018A		TP-23 @ 0.5-1'	10:14				X X
019A		TP-24 @ 0.5-1'	11:30				X X
020A		TP-24 @ 1 1/2-2'	11:43				X X - Hold

Relinquished By: Christopher Vertin Print: Christopher Vertin Date: 1/21/13 Time: 15:47

Received By: NAVIN G Print: NAVIN G Date: 1-21-13 Time: 15:47

Were Samples Received in Good Condition?  Yes  NO Samples on Ice?  Yes  NO Method of Shipment: Torrent p/n Sample seals intact?  Yes  NO  N/A

NOTE: Samples are discarded by the laboratory 30 days from date of receipt unless other arrangements are made. Temp 3 °C Page 2 of 3

Log In By: [Signature] Date: 1-21-13 Log In Reviewed By: Date:

## **Appendix C**

### **Mercury 95% Upper Confidence Limit Results**

## Commuication Hill Mercury 95% UCL Calc for Bedrock Material CALCULATION OF UPPER CONFIDENCE LIMITS

Enter t distribution value from the chart to the right for the appropriate number of samples and for the desired Upper Confidence Level percentage.

	t distribution value: <span style="background-color: yellow;">1.697</span>	
<b>Sample Concentrations</b>	Number of Samples: 32	
0.093	Mean: 5.24	
22.9	Variance: 98.65	
15.4	Standard Deviation: 9.93	
10.7	Standard Error: 1.76	
2.9		
2.3		
0.83	Upper Limit of Confidence Interval: <span style="border: 1px solid black; padding: 2px;">8.22</span>	
0.77		
20.9		
0.27	Regulatory Threshold: <span style="background-color: yellow;">18.00</span>	
0.6		
0.16	Appropriate Number of Samples to Collect From a Solid Waste: 1.74	
12		
5.6		
2.1		
7.3		
0.58	Notes: Per EPA SW846 it is typical to use 90% for haz waste evaluation. Either 90 or 95 is used for health risk evaluations.	
4		
0.36	It is assumed that the data is normally distributed. A graph of detection frequency (y-axis) vs. concentration (x-axis) should be prepared for confirmation	
48		
0.05	One half of the detection limit should be used for non-detect samples	
0.58		
7.2		
1.2	Calculation for number of samples only applies if threshold is > mean	
0.15		
0.05		
0.05		
0.26		
0.05		
0.11		
0.05		
0.05		

Number of Samples	t values for 90% Probability	t values for 95% Probability
2	3.078	6.314
3	1.886	2.920
4	1.638	2.353
5	1.533	2.132
6	1.476	2.015
7	1.440	1.943
8	1.475	1.895
9	1.397	1.860
10	1.383	1.833
11	1.372	1.812
12	1.363	1.796
13	1.356	1.782
14	1.350	1.771
15	1.345	1.761
16	1.341	1.753
17	1.337	1.746
18	1.333	1.740
19	1.330	1.734
20	1.328	1.729
21	1.325	1.725
22	1.323	1.721
23	1.321	1.717
24	1.319	1.714
25	1.318	1.711
26	1.316	1.708
27	1.315	1.706
28	1.314	1.703
29	1.313	1.701
30	1.311	1.699
31	1.310	1.697
41	1.303	1.684
61	1.296	1.671
121	1.289	1.658
Infinity	1.282	1.645