PES Environmental, Inc.
Engineering & Environmental Services

February 3, 2015

924.00102.018

Mr. James (JD) Dotchin
Nevada Division of Environmental Protection
Bureau of Corrective Actions
2030 E. Flamingo Road, Suite 230
Las Vegas, NV 89119

Re: Conceptual Site Model
Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)
Former Stauffer Chemical Company Facility, Olin Chlor Alkali Products
Henderson, Nevada, dated October 30
NDEP Facility ID #H-000536 Pioneer/Stauffer

Dear Mr. Dotchin:

On behalf of Stauffer Management Company LLC/Syngenta Crop Protection, LLC (SMC/Syngenta), transmitted herewith is a paper copy of the *Conceptual Site Model, Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4), Former Stauffer Chemical Company Facility, Olin Chlor Alkali Products, Henderson, Nevada,* dated February 3, 2015.

Should you have any questions regarding this information, please call me or one of the company representatives.

Yours very truly,

PES ENVIRONMENTAL, INC.

Nicholas C. Pogoncheff, P.G., Nevada C.E.M. No. 2067
Principal Hydrogeologist

cc: Christa Smaling, BMI Compliance Coordinator – NDEP Las Vegas, NV (paper & electronic)
NDEP c/o Broadbent and Associates – Henderson, NV (paper & electronic)

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PES Environmental, Inc.
Engineering & Environmental Services

A Planning Document Prepared for

Stauffer Management Company LLC/
Syngenta Crop Protection, LLC

CONCEPTUAL SITE MODEL
LEACH BEDS (LOU No. 9) AND PHOSPHORIC ACID POND AND THREE TRENCHES (LOU No. 4)
FORMER STAUFFER CHEMICAL COMPANY FACILITY
OLIN CHLOR ALKALI PRODUCTS
HENDERSON, NEVADA

FEBRUARY 3, 2015

Prepared by

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924.001.02.018

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CONCEPTUAL SITE MODEL
LEACH BEDS (LOU No. 9) AND PHOSPHORIC ACID POND
AND THREE TRENCHES (LOU No. 4)
FORMER STAUFFER CHEMICAL COMPANY FACILITY
OLIN CHLOR ALKALI PRODUCTS
HENDERSON, NEVADA

FEBRUARY 3, 2015

I hereby certify that I am responsible for the preparation of this Conceptual Site Model (i.e., the services provided). The preparation of this document has been provided in a manner consistent with the current standards of the profession, and to the best of my knowledge, comply with all applicable federal, state, and local statutes, regulations and ordinances.

Nicholas C. Pogoncheff, P.G., C.E.M.
Nevada C.E.M. No. 2067 (expires March 1, 2015)

2/3/2015
Date

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LIST OF ACRONYMS

ACD	Agricultural Chemicals Division
ASTM	American Society for Testing and Materials
BCLs	Basic Comparison Levels
BHC	Benzene hexachloride
BMI	Basic Management, Inc.
BMI Complex	Black Mountain Industrial Complex
BRC	Basic Remediation Company
CAMU	Corrective Action Management Unit
CAS	Chemical Abstracts Service
C.E.M.	Nevada Certified Environmental Manager
CSM	Conceptual Site Model
4-CBSA	4-Chlorobenzenesulfonic acid
COPCs	Chemicals of Potential Concern
DAF	Dilution Attenuation Factor
DMPT	Dimethyl Phosphorodithioic Acid
DVSR	Data Validation Summary Reports
ECI	Environmental Conditions Investigation
°F	Fahrenheit
ft bgs	Feet below ground surface
ft/ft	feet per foot
ft	Foot or Feet
-fg	Fine-grained
Geosyntec	Geosyntec Consultants, Inc.
GWTS	Groundwater Extraction and Treatment System
Hargis	Hargis + Associates, Inc.
HAZWOPER	Hazardous Waste Operations and Emergency Response
HCH	Hexachlorocyclohexane

LIST OF ACRONYMS
(Continued)

HDPE	High-density polyethylene
LBCLs	Leaching-Based Basic Comparison Level
LBPAT	Leach Beds and Phosphoric Acid Pond and Three Trenches
LL	Liquid Limit
LOU	Letter of Understanding
mg/kg	milligrams per kilogram
Montrose	Montrose Chemical Corporation of California
MCf	Muddy Creek formation
msl	mean sea level
NAPL	Non-Aqueous Phase Liquid
NDEP	Nevada Division of Environmental Protection
NERT	Nevada Environmental Response Trust
NOAA	National Oceanic and Atmospheric Administration
OCPs	Organochlorine Pesticides
Olin	Olin Corporation
OSHA	Occupational Safety & Health Administration
PES	PES Environmental, Inc.
Pioneer	Pioneer Chlor-Alkali Company Inc
PI	Plasticity Index
PL	Plastic Limit
Qal	Quaternary Alluvium
RAS	Remedial Alternatives Study
RI/FS	Remedial Investigation/Feasibility Study
SD	Standard Deviation
SMC	Stauffer Management Company LLC
SNWA	Southern Nevada Water Authority
SQL	Sample Quantitation Limit
SRCs	Site-Related Chemicals

LIST OF ACRONYMS
(Continued)

Stauffer	Former Stauffer Chemical Company Facility
SVOC	Semi-volatile Organic Compound
TIMET	Titanium Metals Corporation
TRI	TRI/Environmental, Inc.
UMCf	Upper Muddy Creek formation
USEPA	United States Environmental Protection Agency
VOC	Volatile Organic Compound
xMCf	Transitional Muddy Creek formation

1.0 INTRODUCTION

This document presents the Conceptual Site Model (CSM) specific to the Agricultural Chemicals Division (ACD) Leach Beds and Phosphoric Acid Pond and Three Trenches (LBPAT) of the former Stauffer Chemical Company (Stauffer) facility (i.e., "Site") in Henderson, Nevada. As shown on Plate 1, the Site refers to the overall property now operated as Olin Chlor Alkali Products, and comprises property that was historically operated by the U.S. Government, Basic Magnesium, Inc., Stauffer, Montrose Chemical Corporation of California (Montrose), and Pioneer Americas LLC (Pioneer). The CSM is submitted pursuant to the 1996 Phase II Consent Agreement between the Nevada Division of Environmental Protection (NDEP), Stauffer and Pioneer, and in response to the NDEP's November 14, 2011 letter which among other items, requires that "the Companies" complete characterization of the nature and extent of contamination at Letter of Understanding (LOU) and non-LOU areas located at the Site and proceed with remedial alternatives studies.

The Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4) represent two LOU areas related to the Stauffer ACD operations which took place at the Site from approximately 1946 through 1984. As shown on Plate 2 and further described in Section 2.2, the LBPAT consisted of adjoining surface impoundment features located within a total contiguous area of approximately 280 feet wide by 380 feet long in an isolated and restricted area of the Site. The LBPAT were operationally closed in 1980 by excavating a 10-foot deep trench around the perimeter of the entire area, backfilling the trench with clay, and constructing an overlying clay and soil cover cap (SMC, 1997).

Since 2006, the LBPAT and other LOU areas related to the former Stauffer ACD operations have been the subject of several phases of field investigations as part of the Phase II Environmental Conditions Investigation (ECI) program. Consistent with details from the November 29, 2012 technical workshop with the NDEP to address any remaining data gaps at several of the ACD LOU areas (as chronicled in the NDEP's Final Meeting Minutes provided in Appendix A), the most recent field investigation at the LBPAT was completed in 2013 in accordance with the *Revised Work Plan for Vadose Zone Characterization, Environmental Conditions Investigation, LOU Area Nos. 4, 5, 8, 9, 10 and 12, Former Stauffer Chemical Company Facility* (PES, 2013a). In successfully completing the aforementioned scope of work, no additional field investigation is planned at the LBPAT prior to proceeding with the Remedial Alternatives Study (RAS) process to address vadose zone conditions. As summarized in the NDEP's Final Meeting Minutes from November 29, 2012, the goal of the RAS will be to implement a remedy that meets the NDEP's requirements to obtain a "No Further Action" determination with respect to vadose zone soil to a depth of 10 feet under the Outdoor Commercial/Industrial Worker Scenario.

A comprehensive CSM was prepared for the overall Site in 2008 titled *Conceptual Site Model, Former Montrose and Stauffer Facilities, and Downgradient Areas to Las Vegas Wash, Revision 1.0* (Hargis, 2008), which provides the detailed history of operations at both the Stauffer and Montrose facilities, and details regarding the nature and extent of site-related

chemicals (SRCs) in soil and groundwater. It is also important to note that while groundwater conditions at the Site and the LBPAT are discussed in this CSM, groundwater at the Site is being addressed separately via the *Draft Groundwater Remedial Alternative Study, Former Stauffer and Montrose Facilities* (Geosyntec, 2014), which includes a comprehensive discussion of Site-wide groundwater conditions and the current groundwater extraction and treatment system (GWTS) that operates under the requirements of the 1983 Consent Order for the Site (State of Nevada, 1983).

This CSM is specific to the LBPAT and based on current conditions at the Site and information from both historical and recent investigations. Moreover, the CSM is intended to assist in preparation of the future RAS specific to the LBPAT which will be developed with the goal for implementing a remedy that meets the NDEP's requirements to obtain a "No Further Action" determination with respect to vadose zone soil to a depth of 10 feet under the Outdoor Commercial/Industrial Worker Scenario. Following the NDEP's approval of this CSM, the RAS will be prepared for the LBPAT.

1.1 Report Organization

The Phase II Consent Order outlines the process to investigate the nature and extent of contamination related to the Site and to develop remedial action alternatives as appropriate; among other items, the process includes the ECI and RAS which is generally consistent with the U.S. Environmental Protection Agency (USEPA) process for conducting a Remedial Investigation/Feasibility Study ([RI/FS] USEPA, 1988). The overall format of this CSM is consistent with the USEPA guidance for RI activities, and as applicable, the American Society for Testing and Materials (ASTM) guidance for developing *Conceptual Site Models for Contaminated Sites* (ASTM, 2014) and is organized as follows:

- Section 1.0 presents a brief introduction, organization of the report, and purpose and objectives of the CSM;
- Section 2.0 presents background information about the Site including ownership and operational history, physical characteristics of the LBPAT, and overview of hydrogeologic conditions;
- Section 3.0 summarizes historical and recent field investigations performed to characterize soil and groundwater conditions at the LBPAT;
- Section 4.0 describes the occurrence of chemical constituents identified in soil and groundwater at the LBPAT, and risk-based screening of these chemicals;
- Section 5.0 presents the CSM including a description of sources and releases, contaminant transport and exposure pathways, and potential receptor populations specific to the LBPAT;

- Section 6.0 presents a discussion of the planned path forward (i.e., preparation of the RAS for the LBPAT) following NDEP's acceptance of this CSM; and
- Section 7.0 provides the list the references (annotated with NDEP acceptance status where applicable) cited in preparing this document.

1.2 Purpose and Objectives

The purpose of this CSM is to present a comprehensive and concise understanding of impacted media specific to conditions at the LBPAT and to identify the potential exposure of chemical constituents in vadose zone soil to potential receptors under the Outdoor Commercial/Industrial Worker Scenario. Accordingly, the purpose and objectives of this CSM area to:

- Summarize pertinent data that has been collected throughout the ECI/RI process to refine the CSM. This information includes the identification of source(s) and characterizing the nature and extent of SRCs in soil and groundwater at the LBPAT;
- Identify potential exposure pathways for chemical constituents and potential receptors specific to the LBPAT; and
- Provide a tool to facilitate the development of the planned RAS specific to vadose zone soil to a depth of 10 feet at the LBPAT.

2.0 SITE BACKGROUND

2.1 Site Location and Description

The Site is currently owned by Olin Corporation (Olin) and consists of approximately 374 acres located within the southwest portion of the 5,000-acre Black Mountain Industrial Complex (BMI Complex) in an unincorporated portion of Clark County, Nevada, and bordered by the City of Henderson (Plate 1). The Site is currently operated as the Olin Chlor Alkali Products facility for the manufacture of liquid chlorine, hydrochloric acid, caustic potash and soda, bleach, and related co-products. The property is zoned by Clark County as Industrial and Manufacturing and the projected future use of the Site will remain as Industrial and Manufacturing.

The property immediately north of the Site is owned by Basic Remediation Company (BRC) and occupied by the 55-acre BRC Corrective Area Management Unit (CAMU; operated under a CAMU Hazardous Waste Permit authorized by the NDEP) and the unlined Basic Management, Inc. (BMI) Landfill. The BRC CAMU comprises over four million cubic yards of remediation waste resulting from the partial cleanup of the BMI Common Areas Upper Ponds and Slit Trenches. The Site is bordered to the east by the Nevada Environmental Response Trust (NERT) property which is shared by other companies including Tronox, Lhoist (lime production), Western Power Administration, BMI and Titanium Metals

Corporation (TIMET). The NERT property also includes groundwater extraction and treatment facilities to address perchlorate and chromium in groundwater resulting from former operations including but not limited to the production of magnesium, manganese dioxide, chlorates and perchlorates. Other facilities within the BMI Complex and surrounding offsite area include TIMET (east of the NERT property) where groundwater extraction and treatment facilities operate to address chemicals from the production of magnesium and titanium raw materials, and American Pacific Corporation (to the west) where groundwater extraction and treatment facilities also operate to address perchlorate in groundwater resulting from former manufacturing operations. Eastgate Road and U.S. Highway 95 border the Site to the West. The nearest residential areas to the Site are located north (across North Boulder Highway) and south (across Lake Mead Parkway).

2.2 Leach Beds and Phosphoric Acid Pond and Three Trenches

As shown on Plate 2, the operationally closed LBPAT occupy an area of approximately 2.4 acres in the isolated and restricted northwest portion of the Site. The Olin Chlor-Alkali operations and former Montrose operations occupy the northeast and central, and southern portion of the Site, respectively.

2.2.1 Operational History

The LBPAT were constructed as separate and adjoining unlined surface impoundments related to the former Stauffer ACD and Chlor Alkali operations which took place at the Site from approximately 1946 through 1984. The former Stauffer ACD operations were specific to the manufacturing of agricultural products which included Trithion (i.e., carbophenothion produced on an intermittent basis from 1958 through 1984), Imidan (i.e., phosmet produced on an intermittent basis from 1964 through 1976), parachlorothiophenol (produced from 1960 through 1984), thiophenol (produced from 1967 through 1982), and Lindane (gamma-benzene hexachloride [BHC]) which was produced on intermittent basis from 1946 through the end of production in 1958. By the end of 1984 all of the Stauffer ACD operations were closed, and the buildings and equipment were removed during subsequent decommissioning activities.

It is reported that the area in which the Leach Beds are located appear to have been in use for waste disposal from approximately 1950 through 1974 (Weston, 1993). It is further reported that aqueous waste (90% water) generated from the production of Trithion (i.e., carbophenothion)/Imidan (i.e., phosmet) was disposed into the Leach Beds between 1961 to 1974, and chlorine liquefaction sludge generated by the Chlor Alkali process was also likely disposed in the Leach Bed area between 1958 and 1976 (Weston, 1993). Aqueous wastes from the Trithion/Imidan process were conveyed to the Leach Beds via a steel pipe.

The unlined Phosphoric Acid Pond and Three Trenches were in use from approximately 1960 through 1970 for the disposal of phosphoric acid wastes generated from the parachlorothiophenol/ thiophenol manufacturing process (Weston, 1993). It is reported that an earthen dike separated the Three Trenches from the northern portion of the

Phosphoric Acid Pond. Phosphoric acid wastes were conveyed to the Leach Beds via a steel pipe (or transported by drum). It is further reported that subsequent to the use of the Phosphoric Acid Pond and Three Trenches, acid wastes in the Phosphoric Acid Pond and Three Trenches were neutralized with lime and alkaline soil between 1970 and 1971 (Weston, 1993).

The LBPAT were closed for operational purposes in 1980 by excavating a 10-foot deep trench around the perimeter of the collective areas of these historical surface impoundments (as shown on Plate 3), backfilling the trench with clay, and constructing an overlying soil and clay cover cap (SMC, 1997). The cap was reported to be constructed with a 1-foot thick layer of clay material exhibiting an average permeability of 8.85×10^{-7} cm/sec, and an overlying 2-foot thick layer of native sand and gravel soil (SMC, 1997).

2.2.2 Current Physical Setting

Access to the LBPAT is limited by Site-wide security fencing and 24-hour Olin Site security located at the Facility Security Gate. Access to the LBPAT is further restricted by requiring a Work Permit issued only by Olin personnel. The infrequent activities conducted at or near the LBPAT are limited to the inspection and maintenance of the soil cover cap and groundwater monitoring which are performed in accordance with U.S. Department of Labor, Occupational Safety & Health Administration (OSHA) and Hazardous Waste Operations and Emergency Response (HAZWOPER) regulations.

The current interpreted "footprints" of the LBPAT and capped cover (as shown on Plates 3 and 4) are based upon review of historical aerial photographs, the assessment of the soil and clay cover cap (PES, 2007b) and the current topographic outline. As further described in the *Data Transmittal Report, Assessment of Soil Covers* (PES, 2007b), inspection of the soil and clay cover cap at the LBPAT showed the presence of minor erosion features, and that the surface cover of sand and gravel and underlying clay layer varied in thicknesses of approximately 12 to 36 inches (i.e., surface soils), and 3 to 18 inches (i.e., underlying clay cover layer), respectively.

2.3 Climate

The climate of the Las Vegas valley is arid, consisting of mild winters and dry hot summers. Temperatures in the summer often exceed 100 degrees Fahrenheit (°F). The winters are generally short and mild with daytime highs near 60 °F and over-night lows around 40 °F. Average annual precipitation in the vicinity of the Site is approximately 4.5 inches, which primarily occurs from December through March; however, occasional rainfall is not uncommon anytime of the year (NOAA, 2010). The mean annual evaporation at lake and reservoir surfaces exceeds precipitation, and ranges from 60 to 82 inches per year (SNWA, 1996).

2.4 Geologic and Hydrogeologic Conditions

Lithologic data from soil borings and groundwater monitoring wells completed in the vicinity of the former Stauffer ACD operations and LBPAT show that three geologic units have been identified with the upper 140 feet of geologic deposits. Consistent with the geology in the eastern and southeastern portions of the Las Vegas Valley (Plume, 1989), these valley fill deposits include from surface (youngest) to depth (oldest); Quaternary alluvium (Qal), transitional Muddy Creek formation (xMCf), and Muddy Creek formation (MCf) and/or Upper Muddy Creek formation (UMCf) of Tertiary age. The LBPAT is located on alluvial fan deposits derived from the McCullough Range located south of the BMI Complex.

As shown in the cross-sections presented on Plate 5 (i.e., representative of conditions in the vicinity of the LBPAT) the Qal consists predominantly of sand and gravel deposits, with occasional cobbles, consistent with the depositional environment of an alluvial fan. Native land surface elevations in the northwest portion of the Site range from approximately 1,790 to 1,814 feet above mean sea level (msl), and slope north at a rate of about 0.015 feet per foot (ft/ft). The regional land surface slopes north-northeast approximately 2.9 miles toward Las Vegas Wash at a rate of about 0.012 ft/ft.

The Qal at the LBPAT ranges in thickness from approximately 35 to 47 feet with variations due, in part, to the non-uniform contact between the Qal and the underlying xMCf (where present and/or identified). The contact between the Qal and the xMCf is fairly well defined, typically noted by a decrease in grain size, color change similar to the UMCf and "reworked" nature of both Qal and UMCf sediments (i.e., gravels and clasts). Where identified, the xMCf in this area ranges in thickness from approximately 3 to 17 feet.

The Qal and/or xMCf (where noted) is underlain by the relatively fine-grained sediments of the UMCf. Clasts within the UMCf are typically noted to be of calcareous nodules in contrast to the composition of the Qal. The UMCf contains thick sequences of fine-grained fat, silty clay and clay that may be interspersed with lenses of sand and silt. Moreover, where present, these lenses within the UMCf are not laterally continuous or correlative beneath the Site. The thickness of the UMCf based on lithologic information from boring DMC-MW-26 located approximately 1,300 feet east-southeast of the LBPAT is observed to be at least 260 feet.

Lithologic information collected in the vicinity of the LBPAT show that the vadose zone extends to depths which range from approximately 45 to 47 feet below ground surface (ft bgs). The first water-bearing zone is typically present with saturated deposits of the Qal and/or xMCf, or upper portion of the UMCf (i.e., where the Qal and/or xMCf is not saturated). Based on hydrogeologic nomenclature developed by the NDEP, this first water-bearing zone which is present under unconfined conditions is referred to as the Shallow Zone. Due to the significant contrast in materials which comprise the Qal, xMCf and UMCf (i.e., coarse- to fine-grained [-fg] sediments), the Shallow Zone may exhibit substantial variability in hydraulic conductivity. In most areas throughout Las Vegas Valley including the Site, groundwater

within the Shallow Zone is not considered a source of potable water due to the elevated concentrations of total dissolved solids (Plume 1989, and Zikmund, 1996).

Groundwater within the deeper portion of the UMCf is also present under confined or semi-confined conditions in both aquicludes and thin water-bearing zones and is referred to as the Middle Zone or Deep Zone (i.e., typically deeper than 250 ft bgs). Based on hydrogeologic data collected at the Site, the entire saturated sequence of materials (from Qal to UMCf) appears to be in some degree of hydraulic communication. Moreover, the predominant vertical hydraulic gradient within this sequence of materials is generally upward, particularly as observed where groundwater monitoring wells completed in both the Middle Zone and Deep Zone exist in close proximity.

The predominant horizontal direction of groundwater flow within the Shallow Zone in the vicinity of the Site is to the north-northwest at a hydraulic gradient that ranged from approximately 0.01 to 0.02 ft/ft in 2013 (Hargis, 2013). The general horizontal direction of groundwater flow within the Shallow Zone at the site is likely influenced by erosional features within the surface of the UMCf such as paleochannels. The predominant horizontal direction of groundwater flow within the Middle and Deep zones at the Site is reported to be to the north at a hydraulic gradient that ranged from approximately 0.01 to 0.02 ft/ft in 2013 (Hargis, 2013).

Additional details regarding environmental conditions at the Site are presented in the *Conceptual Site Model, Former Montrose and Stauffer Facilities, and Downgradient Areas to Las Vegas Wash, Revision 1.0* (Hargis, 2008). Likewise, the most recent update of groundwater conditions at the Site is presented in the *2013 Comprehensive Groundwater Data Evaluation Report, Former Montrose and Stauffer Facilities and Current Olin Facility* (Hargis, 2013).

3.0 INVESTIGATIVE HISTORY OF LEACH BEDS AND PHOSPHORIC ACID POND AND TRENCHES

The following sections summarize the history of investigations and activities performed to characterize environmental conditions at the LBPAT. A comprehensive inventory of the investigations, datasets, and reports completed to characterize activities at the LBPAT are summarized in Table 1. As described in these documents, all datasets with minor exception represent Stage 2B/Stage 4 verification and validation including Level IV laboratory deliverables to facilitate the validation process. Moreover, the accompanying Data Validation Summary Reports (DVSRs) for all datasets have been approved as a result of NDEP's rigorous review process. As summarized in Table 1, the sole exception noted above represent supplementary soil data collected (with Stage 2A verification and validation) during subsurface reconnaissance (exploratory trenches) and profiling of actual waste materials at the LBPAT.

3.1 Vadose Zone

As summarized in Table 1, numerous phases of field investigation have been performed from 2006 through 2013 to characterize the chemical and physical conditions of soil and waste material within the vadose zone at the LBPAT. As summarized in Table 1 and shown on Plate 3, vadose zone soil characterization in the vicinity of the LBPAT has included the following:

- **Leach Beds**: 29 depth-discrete samples of soil and/or waste material from 10 locations, including: 2 waste characterization borings (2 waste material samples for chemical analysis) and 5 deep soil borings (27 soil samples for chemical analysis). Additionally, 3 exploratory trenches (WCTP-01 through WCTP-03) were completed for visual inspection of soil/waste material beneath the overlying clay cover cap;

- **Phosphoric Acid Pond**: 52 depth-discrete soil/waste samples from 17 locations, including: exploratory trenches WCTP-14 and WCTP-20 (2 waste material samples for chemical analysis), 2 waste characterization borings (3 waste material samples for chemical analysis), 8 deep soil borings (45 soil samples for chemical analysis), and 1 shallow soil boring (2 soil samples for chemical analysis). Additionally, 4 exploratory trenches (WCTP-13, WCTP-15, WCTP-19 and WCTP-25) were completed for visual inspection of soil/waste material beneath the overlying clay cover cap; and

- **Three Trenches**: 75 depth-discrete samples of soil and/or waste material from 20 locations, including: 3 waste characterization borings (3 waste samples for chemical analysis), 12 deep soil borings (68 soil/waste samples for chemical analysis), and 2 surface cover borings (4 soil samples for chemical analysis). Additionally, 3 exploratory trenches (WCTP-16 through WCTP-18) were completed for visual inspection of soil/waste material beneath the overlying clay cover cap.

Table 2 provides a summary of the laboratory analytical program for the analysis of each depth-discrete soil and waste material sample from the LBPAT. Waste material samples were also collected from exploratory trenches WCTP-03, WCTP-14, WCTP-16, WCTP-17, WCTP-20, and WCTP-25 (Plates 3 and 4) for the purpose of laboratory testing (TRI, 2009) to evaluate the compatibility of these materials with high-density polyethylene (HDPE) geomembrane. HDPE geomembrane is used in a variety of containment applications such as liner systems for the construction of landfills.

Additionally, 21 test pits ("TP-" location identifier prefix) were completed at the locations shown on Plate 4 to allow for the visual inspection of the surface soil cover, clay cover cap, and materials beneath the clay cap. A high-definition topographic survey of the ground surface was performed using a high-definition, portable laser radar scanner, and the resultant topographic contours are presented on Plate 4.

Results from these investigations indicate:

- The highest elevation at the LBPAT is approximately 6 feet above the surrounding grade, and the surface cover cap provides positive drainage away from the general area (PES, 2007b);

- The surface soil cover layer consists of dry, yellowish brown silty sands with variable amounts of gravel, and varies in thickness from approximately 12 to 36 inches. Beneath the surface soil layer is a clay layer that generally consists of a dry to moist greenish gray clay, with low to medium plasticity, and varies in thickness from approximately 3 to 18 inches. Plastic sheeting was observed beneath the clay cap layer in 4 of the 13 exploratory trenches at the LBPAT (PES, 2009b) suggesting that a layer of plastic sheeting may have been emplaced beneath the clay cap layer (PES, 2007b);

- The average moisture content (in percent weight) of the surface cover materials tested at the LBPAT is approximately 1.7% in contrast to 9.2% for the clay material. The tests for Atterberg Limits of the clay samples indicated the average Liquid Limit (LL), Plastic Limit (PL), and Plasticity Index (PI) are 101.0, 28.0, and 73.0 units, respectively. The hydraulic conductivity of the clay material at locations TP-49, TP-58 and TP-61 was reported to be 4.3×10^{-7}, 5.4×10^{-7} and 1.6×10^{-7} cm/s, respectively, with an average hydraulic conductivity of 3.8×10^{-7} cm/s;

- A cement-like layer was encountered at depths between 2 to 4 ft bgs in each of the exploratory trenches (as shown on Plates 6 and 7) within the Phosphoric Acid Pond. The cement-like layer ranges in thickness from approximately 3 to 8 ft and is thought to be the result of lime and alkaline soil applied (between 1970 and 1971) to neutralize acid wastes in the Phosphoric Acid Pond, and has since hardened into the cement-like layer. Apparent lime material (i.e., white chalky material exhibiting elevated concentrations of calcium and magnesium) was also encountered above the cement-like layer. Beneath the cement-like layer at WCTP-25, a wet, whitish-gray material mixed with soil was encountered from approximately 10 to 12 ft bgs (also shown on Plate 7). Waste characterization boring WC-03 indicates a wet, whitish gray waste material from approximately 12 to 17 ft bgs, and unsaturated Qal to the total depth of the boring (i.e., 20 ft bgs). Waste characterization boring WC-04 indicates a wet, grayish-brown waste material was encountered from approximately 8 to 12 ft bgs, and unsaturated Qal to the total depth of the boring (i.e., 15 ft bgs);

- As shown on Plate 8, a white chalky material (similar to the apparent lime material also encountered above the cement-like layer at the Phosphoric Acid Pond) was encountered from 2.5 to 6 ft bgs in exploratory trenches WCTP-16, WCTP-17, and WCTP-18 at the Three Trenches. A wet, grayish material (also shown on Plate 8) was present in exploratory trenches WCTP-16 and WCTP-17 at depths from 6.5 to 9 ft bgs. No wet material was encountered within the western-most trench (WCTP-18). Waste characterization borings WC-05, WC-06, and WC-07 generally indicate a wet,

yellow/gray waste material at depths from approximately 7 to 11 ft bgs and unsaturated Qal to the total depth of the borings (i.e., 15 ft bgs);

- Waste material at the Leach Beds was encountered in only one of the three exploratory trenches completed in this area. In exploratory trench WCTP-03 an apparent waste material of moist to wet, very dark brown, silty sand was encountered from 6 to 9 ft bgs, and a 1.0-foot by 1.5 feet piece of clear plastic was encountered at 7 ft bgs. A dry, very dark grayish brown waste material was noted in waste characterization boring WC-01 (6 to 15 ft bgs);

- As shown in the cross-sections presented on Plate 5 (which incorporate lithologic and hydrogeologic data from deep borings and groundwater monitoring wells in the subject area), the Qal at the LBPAT ranges in thickness from approximately 35 to 47 feet and generally consists of yellowish brown silty sands with variable amounts of gravel. The transition zone was encountered in the soil borings for wells EC-09 and EC-14 at depths of 35 ft bgs and 47 ft bgs, respectively and is distinguished from the underlying UMCf by the presence of coarser grained sediments (i.e., coarse-grained sands and coarse gravels exceeding approximately 1.5 inches in diameter) intercalated with fine-grained sediments (silts and clays). The depth to groundwater most recently reported for measurements at wells EC-09 (April 2009) and EC-14 (June 2014) was approximately 42 and 38 ft bgs, respectively;

- No direct evidence of non-aqueous phase liquid (NAPL) was identified in the 25 deep soil borings completed within the LBPAT (including the borings for groundwater monitoring wells EC-09 and EC-14), which were completed to depths ranging from 20 to 131 ft bgs. The direct lines of evidence refer to both detailed visual examination of the soil cores and field screening of the soil cores using dye-impregnated hydrophobic ribbon designed to identify the presence of NAPL. In addition, no direct evidence of NAPL (i.e., either dense- or light-NAPL) has been detected in groundwater monitoring wells EC-09 or EC-14 based on monitoring performed with a product/water interface probe (i.e., designed to detect and measure the presence of NAPL); and

- The results of the HDPE geomembrane testing conducted with waste materials collected from the LBPAT showed that although some minor changes in the mechanical properties of the HDPE liner materials were noted during the 120-day testing period, the data “do not suggest that the observed changes in mechanical properties were caused by the test exposures” (i.e., to the subject waste materials [TRI, 2009]).

3.2 Groundwater

Groundwater characterization performed as part of the ECI in the vicinity of the LBPAT included the construction of Shallow Zone groundwater monitoring well EC-09 and Middle Zone groundwater monitoring well EC-14 (Plate 3). Shallow Zone groundwater monitoring well EC-09 is located along the northern perimeter (i.e., approximately 30 feet downgradient) of the LBPAT and is completed within the transition zone (i.e., first saturated materials) of the Qal and UMCf-fg sediments (well screen interval from 43.5 to 58.5 ft bgs). Middle Zone groundwater monitoring well EC-14 is located approximately 110 feet downgradient of the LBPAT and is completed within the UMCf-fg (well screen interval from 112 to 127 ft bgs). Sampling and analysis of well EC-09 has included the comprehensive list of SRCs (PES, 2007a), and collection of three samples in October 2006, April 2008 and October 2008. Well EC-14 is included within the comprehensive site-wide groundwater monitoring program (Hargis, 2013), and has been sampled seven times between March 2009 and June 2014.

A comprehensive account of activities performed to characterize groundwater conditions at the Site are presented in the *Conceptual Site Model, Former Montrose and Stauffer Facilities, and Downgradient Areas to Las Vegas Wash, Revision 1.0* (Hargis, 2008) and the most recent update of groundwater conditions at the Site is presented in the *2013 Comprehensive Groundwater Data Evaluation Report, Former Montrose and Stauffer Facilities and Current Olin Facility* (Hargis, 2013). As previously noted, while groundwater conditions at the Site and LBPAT are discussed in this CSM, groundwater at the Site is being addressed separately via the *Draft Groundwater Remedial Alternative Study, Former Stauffer and Montrose Facilities* (Geosyntec, 2014).

4.0. OCCURRENCE OF CHEMICALS IN SOIL AND GROUNDWATER

The following sections describe the nature and occurrence of chemicals within the vadose zone and groundwater at the LBPAT, and are based upon the aforementioned datasets described above in Section 3.0 and the screening of these data in comparison to NDEP (2013) Basic Comparison Levels (BCLs) and Leaching-Based BCLs (LBCLs). As referenced in the *User's Guide and Background Technical Document for the NDEP BCLs* (NDEP, 2013), BCLs are considered to be protective of human health and the comparison of site characterization data against NDEP risk-based media concentrations provides an initial screening evaluation to assist in "supporting quality assurance programs and data usability evaluations; limiting the number of chemicals of potential concern (COPCs) evaluated in risk assessments; screening sites to determine the need for further evaluation; prioritizing multiple "hot spots" within a facility or exposure realm; [and] focusing future risk assessment efforts; … and identification of preliminary remediation goals". Moreover, "Exceedance of a BCL does not automatically designate the site as needing a response action."

As stated above in Section 1.2 (Purpose and Objectives), the intended purpose of this CSM is to provide a tool to assist in development of the planned RAS specific to vadose zone soil to a depth of 10 feet at the LBPAT (i.e., as opposed to preparation of a Human Health Risk Assessment [HHRA]). Consistent with Section 1.2 and the NDEP's Final Meeting Minutes from November 29, 2012 (Appendix A), the goal of the RAS will be to implement a remedy that meets the NDEP's requirements to obtain a "No Further Action" determination with respect to vadose zone soil to a depth of 10 feet under the Outdoor Commercial/Industrial Worker Scenario. Consistent with USEPA guidance (1989), the soil exposure for the Outdoor Worker is limited to Surface soils (i.e., soils present from ground surface to 0.5 ft bgs), and the soil exposure for the Construction Worker includes both Surface soil and Shallow soils (i.e., the interval from ground surface to 10 ft bgs). Soils present at a depth greater than 10 ft bgs are defined as Deep soils.

The nature and distribution of chemical occurrence is described below for vadose zone and groundwater media and summarized in the accompanying tables and figures with reference to applicable BCLs (for soil and Residential Tap Water) and LBCLs.

4.1 Distribution of Chemicals in Vadose Zone Soil and Risk-Based Screening

The risk-based screening of vadose zone soil samples (Surface, Shallow and Deep soils) in comparison to both BCLs and LBCLs are discussed in the following sections.

4.1.1 Soil Basic Comparison Levels

As summarized in Table 1 and shown on Plate 3, vadose characterization in the vicinity of the LBPAT has included the collection of 156 depth-discrete samples of soil and/or waste material from 47 locations.

A comprehensive compendium of the laboratory analytical results for each depth-discrete soil and waste material sample is provided in Table B-1 (Appendix B) and includes the following details and statistics for each analyte: (1) Chemical Abstracts Service (CAS) Registry number; (2) applicable NDEP BCL for Soil under the Outdoor Commercial/Industrial Worker Scenario (NDEP, 2013); (3) the value that is one-tenth (i.e., 10^{-7} risk level) of the aforementioned NDEP BCL; (4) number of soil samples; (5) number of detected concentrations; (6) frequency of detection; (7) minimum detected concentration; (8) mean detected concentration; (9) median detected concentration; (10) maximum detected concentration; (11) number of detections greater than or equal to ($\geq$) aforementioned NDEP BCL; (12) frequency of detections $\geq$ aforementioned NDEP BCL; (13) number of detections $\geq$ one-tenth NDEP BCL; (14) minimum reported non-detected value or sample quantitation limit (SQL); (15) maximum reported non-detected value or SQL; and (16) number of SQLs $\geq$ aforementioned NDEP BCL.

To further summarize the information tabulated in Table B-1 and facilitate the screening of vadose zone soil data in comparison to NDEP BCLs for Soil under the Outdoor Commercial/Industrial Worker Scenario (NDEP, 2013), Table 3 provides a statistical summary of the analyte groups and specific chemicals (i.e., for which an applicable BCL exists) that have been detected at concentrations ≥ the aforementioned NDEP BCLs. As summarized in Table 3 and described below, the chemicals detected in soil samples at concentrations ≥ applicable BCLs represent the analyte groups for organochlorine pesticides (OCPs), volatile organic compounds (VOCs), organic acids, semi-volatile organic compounds (SVOCs), metals, and asbestos. The spatial distribution of selected OCPs, VOCs, organic acids and other selected chemicals are also presented graphically on Plates 9 through 11. As summarized in Table 3 and shown on Plates 9 through 11:

- OCPs detected in vadose zone samples at concentrations ≥ applicable BCLs include (Table 3): 4,4'-DDT, beta- hexachlorocyclohexane (HCH) , alpha-HCH, gamma-HCH, and delta-HCH (at the respective frequencies of 9.2%, 9.1.%, 8.4%, 7.2% and 0.7%). As shown on Plate 9, the alpha- and beta-HCH isomers were not detected at concentrations ≥ BCLs within the Three Trenches, with the exception of one sample collected at 2 feet bgs (i.e., SB-EC-103). Within the Leach Beds and Phosphoric Acid Pond, the concentrations of 4-4'-DDT, alpha-HCH, and beta-HCH ≥ the BCL were reported for samples ranging in depth from 1.5 to 35 ft bgs;

- Benzene, 1,4-Dichlorobenzene (1,4-DCB), and 1,2,4-Trichlorobenzene (1,2,4-TCB) were the only VOCs reported in vadose zone samples at concentrations ≥ applicable BCLs at the respective frequencies of 9.5%, 3.4% and 2.0%. As shown on Plate 10 and summarized in Table B-1, concentrations ≥ applicable BCLs were not detected in any samples collected between 0 and 10 ft bgs, and are limited to six locations at depths ranging from 10 to 39.5 ft bgs;

- 4-Chlorobenzenesulfonic Acid (4-CBSA) was the sole organic acid reported in vadose zone samples at concentrations ≥ applicable BCLs (Table 3) at a frequency of 15.6%. As shown on Plate 10 and summarized in Table B-1, the highest concentrations of 4-CBSA were reported in waste material samples collected from depths of 7 to 8 ft bgs within the Phosphoric Acid Pond and Three Trenches;

- Benzo(b)fluoranthene and 1,1'-Sulfonybis benzene were the only SVOCs detected in vadose zone samples at concentrations ≥ applicable BCLs (Table 3). The only sample where the concentration of these two SVOCs are greater than the BCL (Table B-1) is from a waste material sample collected from boring WC-04 (8.0 to 10 ft bgs);

- Magnesium and arsenic were the only metals detected in vadose zone samples at concentrations ≥ applicable BCLs (Table 3); the frequencies of detections at concentrations ≥ BCLs were 2.5% and 90.3%, respectively. The only sample where the concentration of magnesium is greater than the BCL (Table B-1) is from a waste material sample collected from exploratory trench WCTP-14 (2.5 to 3.5 ft bgs). The concentration of magnesium in this sample is likely due to the presence of a white

chalky material (thought to be lime material applied in 1970s to neutralize acid wastes based upon physical characteristics and the high concentrations of calcium and magnesium);

- Background studies performed by BRC and others (BRC/Timet, 2007; BRC/ERM, 2009a; and BRC/ERM, 2009b) show that the maximum, mean, and median arsenic concentrations for background datasets representative of soils at the Site (i.e., McCullough Range and UMCf data) were 24.8 mg/kg (milligrams per kilogram), 4.77 mg/kg (Standard Deviation [SD] = 2.76), and 4.00 mg/kg, respectively. The results from previous statistical comparisons performed by PES of arsenic data from Site soils and the aforementioned background datasets (PES, 2013a) also show that arsenic concentrations in vadose zone samples from the LBPAT are consistent with or below the reported concentrations for the respective background datasets. For example, the maximum, mean, and median of reported arsenic concentrations for the LBPAT dataset were 7.6 mg/kg, 3.0 mg/kg (SD = 1.13), and 3.0 mg/kg, respectively; and

- Total asbestos (not amphibole) structures (count of 4) were reported to be present in only one of eight Surface soil samples (frequency of 12.5%) at the LBPAT. As shown on Plate 11, asbestos structures were detected in a Surface soil sample collected at boring SB-EC-133.

4.1.2 Leaching-Based Basic Comparison Levels

In addition to characterizing the vadose zone through field observations and the comparison of soil sample results with BCLs, concentrations of chemicals detected in soil were compared to LBCLs to evaluate potential soil leaching to the groundwater migration pathway. In accordance with NDEP guidance, the LBCLs were based on a default dilution attenuation factor (DAF) of 20, which is appropriate given the size of the LBPAT and the depth to groundwater which ranges from approximately 45 to 55 ft bgs at the Site. This DAF was based on a methodology that only accounts for the physical process of contaminant leachate dilution in groundwater and does not account for other attenuation processes such as biological or chemical degradation during transport through the unsaturated soil zone.

For informational purposes, Table 4 provides a statistical summary of the analyte groups and specific chemicals (i.e., for which an applicable LBCL exists) that have been detected in soil samples collected from 0 to 10 ft bgs at concentrations ≥ the aforementioned NDEP LBCLs. The screening of soil samples against LBCLs is limited to a depth of 10 ft bgs to be consistent with the goal of the RAS which will be to select a remedy that meets the NDEP's requirements to obtain a "No Further Action" determination with respect to vadose zone soil to a depth of 10 feet. As summarized in Table 4, the following 18 chemicals were detected in Surface/Shallow Soil samples from the LBPAT at concentrations ≥ applicable LBCLs:

- OCPs including: beta-HCH, alpha-HCH, gamma-HCH, 4,4'-DDT (at the respective frequencies of 81%, 41%, 38, and 1.2%);
- VOCs including: benzene, chlorobenzene, 1,4-DCB, 1,2,4-TCB, n-heptane, and tetrachloroethene (at the respective frequencies of 15%, 8.9%, 2.5%, 1.3%, 1.3%, and 1.3%);
- Metals including: iron, manganese, aluminum, magnesium, antimony and selenium (at the respective frequencies of 100%, 87%, 83%, 17%, 3.3% and 3.3%);
- The sole SVOC was benzo(b)fluoranthene at a frequency of 7.1%; and
- The sole organic acid was 4-chlorobenzenesulfonic acid at a frequency of 37%.

4.2 Distribution of Chemicals in Groundwater and Risk-Based Screening

As described previously, groundwater at the Site is being addressed separately via the *Draft Groundwater Remedial Alternatives Study, Former Stauffer and Montrose Facilities* (Geosyntec, 2014), which includes a comprehensive discussion of current Site-wide groundwater conditions and the current GWTS that operates under the requirements of the 1983 Consent Order for the Site. Hence, the following discussion is limited to a summary of groundwater quality specific to the vicinity of the LBPAT.

A comprehensive compendium of the laboratory analytical results from the sampling of Shallow Zone groundwater monitoring well EC-09 (well screen interval from 43.5 to 58.5 ft bgs) located approximately 30 feet south (downgradient) and Middle Zone groundwater monitoring well EC-14 (well screen interval from 112 to 127 ft bgs) approximately 110 feet south (downgradient) of the LBPAT is summarized in Table B-2 (Appendix B). Table B-2 includes the following details and statistics for each analyte: (1) CAS Registry number; (2) aqueous solubility; (3) respective NDEP BCL for Residential Tap Water; (4) number of analyses; (5) number of detected concentrations; (6) frequency of detection; (7) minimum detected concentration; (8) mean detected concentration; (9) median detected concentration; (10) maximum detected concentration; (11) number of detections ≥ BCL for Residential Tap Water; (12) frequency of detections ≥ aforementioned BCL; (13) minimum reported non-detected value or SQL; (14) maximum reported non-detected value or SQL; and (15) number of non-detected values ≥ aforementioned BCL.

As summarized in Table B-2, the following SRCs were detected in monitoring wells EC-09 and EC-14 at concentrations ≥ to respective BCLs for Residential Tap Water:

Shallow Zone Well EC-09:

- Aledehydes (acetaldehyde);
- Alcohols and General Chemistry Parameters (ethanol, methanol, and ammonia);
- Metals (aluminum, arsenic, beryllium, cobalt, iron, lead, magnesium, manganese, selenium, thallium, uranium, and vanadium);
- OCPs (4,4'-DDT and gamma-HCH);
- Organic Acids (benzenesulfonic acid, diethyl phosphorodithioic acid, dimethyl phosphorodithioic acid [DMPT], and phthalic acid); and
- SVOCs and VOCs (1,4-DCB, 2-chlorophenol, chlorobenzene, benzene, chlorobenzene, chloroform, and methanethiol).

Middle Zone Well EC-14:

- Metals (aluminum, arsenic, iron, and manganese); and
- VOCs (benzene and chloroform).

As described in the most recent report for Site-wide groundwater monitoring; *2013 Comprehensive Groundwater Data Evaluation Report, Former Montrose and Stauffer Facilities and Current Olin Facility* (Hargis, 2013), the western margins for these plume areas (i.e., the concentrations of the aforementioned SRCs which are ≥ to respective BCLs for Residential Tap Water[with the exception of the regional arsenic plume]) have been characterized by Shallow Zone groundwater monitoring well EC-10 located west of the LBPAT.

5.0 CONCEPTUAL SITE MODEL

The following CSM has been developed in consideration of the releases, potential contaminant transport and exposure pathways, and potential receptors specific to this isolated and restricted area of the Site. As described in Section 1.0, the primary purpose of this CSM is to provide a tool to facilitate the development of the planned RAS specific to vadose zone soil to a depth of 10 feet at the LBPAT.

5.1 Contaminant Sources and Releases

As described above in Section 2.2.1, the LBPAT were unlined impoundments related to the former Stauffer ACD and Chlor Alkali operations which took place at the Site from approximately 1946 through 1984. It is reported that the area in which the Leach Beds were located appear to have been in use for waste disposal from approximately 1950 through 1974

(Weston, 1993). It is further reported that aqueous waste (90% water) generated from the production of Trithion/Imidan was disposed into the Leach Beds between 1961 to 1974, and chlorine liquefaction sludge generated by the Chlor Alkali process was also likely disposed in the Leach Bed area between 1958 and 1976 (Weston, 1993). The Phosphoric Acid Pond and Three Trenches were used from approximately 1960 through 1970 for the disposal of phosphoric acid wastes generated from the parachlorothiophenol/ thiophenol manufacturing process (Weston, 1993). The LBPAT were closed for operational purposes in 1980 by excavating a 10-foot deep trench around the perimeter of the entire collective area of these impoundments as shown on Plate 3, backfilling the trench with clay, and constructing an overlying soil and clay cover cap (SMC, 1997).

Investigations at the LBPAT performed from 2006 through 2013 revealed the presence of an apparent cement-like layer (i.e., attributed to lime and alkaline soil that had been applied between 1970 and 1971 to neutralize acid waste material in the Phosphoric Acid Pond and Three Trenches) in each of the exploratory trenches within the Phosphoric Acid Pond at depths ranging from 2 to 4 ft bgs (i.e., beneath the overlying soil and clay cover cap) and ranging in thickness from approximately 3 to 8 feet. Both wet and dry waste materials were encountered within the area of the LBPAT from approximately 6 ft bgs to a maximum depth of 17 ft bgs.

As described above in Sections 4.1 and 4.2, a subset of SRCs have been identified in vadose zone soils within the LBPAT and in groundwater at the Site. The occurrence of chemicals characterized in soil within the LBPAT are attributed, at a minimum, to releases resulting from the disposal and/or transport of waste materials as a result of former Stauffer ACD, Stauffer Chor-Alkali (e.g., asbestos) and Montrose (e.g., 4-4'-DDT, 1,4-DCB, etc.) operations. As shown on Plates 9 and 10 and summarized in Table 3, the chemicals detected in vadose zone samples at concentrations ≥ applicable BCLs (and ≥ background concentrations) and at depths greater than 10 ft bgs are limited to arsenic[1], alpha-HCH, beta-HCH, gamma-HCH, 4,4'-DDT, benzene, 1,2,4-TCB, 1,4-DCB and 4-CBSA within limited areas of the LBPAT. The occurrence of chemicals in groundwater in the vicinity of the LBPAT are attributed to both the aforementioned releases and Site-wide groundwater conditions as referenced in the *2013 Comprehensive Groundwater Data Evaluation Report, Former Montrose and Stauffer Facilities and Current Olin Facility* (Hargis, 2013).

5.2 Contaminant Transport and Exposure Pathways

5.2.1 Contaminant Transport Pathways

The potential migration of chemicals resulting from the aforementioned releases could occur through transport pathways in air, soil, soil vapor, surface water and groundwater. These potential contaminant transport pathways at the LBPAT include the following:

[1] As noted in Section 4.1.1, arsenic concentrations in vadose zone samples from the LBPAT are consistent with or below the reported concentrations for the respective background datasets.

- Particulate-phase chemical constituents in soil can be transported to air via wind dispersion or other physical disturbances of soil (e.g., erosion, vehicle traffic, excavation, etc.). Once in the air, particulates can be transported to both onsite and offsite areas;

- Chemical constituents in soil can leach within the vadose zone and also migrate to groundwater;

- Chemical constituents in soil and groundwater can migrate through vapor phase transport to ambient air; and

- Following precipitation events, chemical constituents in surface soil can be transported via surface water runoff to other areas of the Site.

5.2.2 Exposure Pathways

The potential complete exposure pathways specific to the LBPAT are presented on Plate 12 and include:

- Inhalation of particulate-phase chemical constituents in ambient air from windblown dust and/or fugitive dust emissions;

- Inhalation of vapor-phase chemicals in ambient air released from soil and/or groundwater;

- Incidental ingestion of chemical constituents in surface and subsurface soil (and potentially surface water runoff). As previously discussed in Section 2.3, the Site is located in a very arid region and exposure to chemical constituents in storm water runoff during the few annual precipitation events would be insignificant and worker activities would be covered under OSHA and HAZWOPER regulations; and

- Dermal contact with surface and subsurface soil (and potentially surface water).

Although the incidental ingestion and dermal contact of chemical constituents in groundwater represent potential exposure pathways, they are not identified above as groundwater at the Site is not used for any purpose (e.g., industrial, domestic consumption, irrigation, etc.). Moreover, while groundwater conditions at the Site and LBPAT are discussed in this CSM, groundwater at the Site is being addressed separately via the *Draft Groundwater Remedial Alternative Study, Former Stauffer and Montrose Facilities* (Geosyntec, 2014). Notwithstanding the aforementioned, Section 4.2 above presents the screening of groundwater quality data in comparison to BCLs established for Residential Tap Water. Additionally, Section 4.1.2 presents the screening of soil data (from 0-10 ft bgs) in comparison to LBCLs.

Currently and in the future, potential exposures to chemical constituents in soil, surface water, and groundwater at the LBPAT are limited as the area is restricted and not in regular use. The infrequent activities conducted at or near the LBPAT are limited to the inspection and maintenance of the soil cover cap and groundwater monitoring which are performed in accordance with OSHA and HAZWOPER regulations.

5.3 Potential Receptor Populations

5.3.1 Human Receptors

As discussed previously, both current and future land use scenarios at the LBPAT will remain Outdoor-Industrial. Potential risks to receptors in this area of the Site are currently mitigated by security fencing and 24-hour Olin Site security located at the Facility Security Gate. Access to the LBPAT is further restricted by Work Permits issued only by Olin personnel. Moreover, while Environmental Covenants have not been fully established at the Site, it is expected that Environmental Covenants will include deed restrictions and institutional controls that limit the use of the LBPAT to Outdoor-Industrial, and also include security fencing around the perimeter of the LBPAT with further designation as a “Restricted Area”.

While it is recognized that the comprehensive group of potential receptor populations at the Site could include non-occupational populations, the Trespasser and Offsite Resident receptor populations are considered insignificant at the LBPAT in comparison to the higher exposure potential for the Outdoor Worker and Construction Worker at this restricted area of the Site. Hence, the principal receptor populations at the LBPAT are limited to the occasional Outdoor Commercial/Industrial (maintenance and construction) Worker. Based upon the aforementioned, it is assumed that the Outdoor Commercial/Industrial Worker at the site could have the potential for direct contact and incidental ingestion of soil (from 0 to 10 ft bgs) and surface water, the inhalation of particulates in windblown dust, and the inhalation of vapors in vadose zone soil and ambient air.

5.3.2 Ecological Receptors and Pathways

The Site is developed and operated as an industrial manufacturing facility and no natural habitats exist at the Site. As acknowledged by NDEP, potential ecological receptors and exposures would only apply to offsite areas through potential exposure to groundwater and are not applicable to evaluations prepared for the Site.

6.0 PLANNED PATH FORWARD

As described in the Introduction (Section 1.0), in order to complete the ECI program for the LBPAT, the process will require moving forward with the RAS to address vadose zone conditions. This CSM provides both a qualitative and quantitative characterization of environmental conditions and evaluation of potential exposure pathways at the LBPAT

suitable to proceed with the RAS process. The planned RAS specific to the LBPAT will be developed with the goal for implementing a remedy that meets the NDEP's requirements to obtain a "No Further Action" determination with respect to vadose zone soil to a depth of 10 feet under the Outdoor Commercial/Industrial Worker Scenario. Following the NDEP's approval of this CSM, the RAS process will commence for the LBPAT. It is expected that the RAS process will include discussions with the NDEP regarding selection of a final remedy and related Environmental Covenants.

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TABLES

Table 1. Inventory of Previous Vadose Zone Characterization Activities
Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

Sampling Program[1]	Sample Type	Leach Beds (LOU No. 9)	Phosphoric Acid Pond (LOU No. 4)	Three Trenches (LOU No. 4)
		(Number of Sample Locations / Number of Samples for Chemical Analysis)		
Additional Vadose Zone Characterization (PES, 2007a)	Vadose Zone Vertical Profile Boring	--	--	1 / 4
Assessment of Soil Covers (PES, 2007c)	Surface Cover Boring	--	1 / 2	2 / 4
Data Gap Sampling Program (PES, 2009a)	Vadose Zone Vertical Profile Boring	1 / 5	1 / 5	2 / 10
	Waste Characterization Boring	2 / 2	2 / 3	3 / 3
Subsurface Reconnaissance and Collection of Waste Characterization Samples (PES, 2009b and 2010a)	Exploratory Trench	3 / 0	6 / 2	3 / 0
Additional Chemical Characterization of Waste Management Areas (PES, 2010a)	Vadose Zone Vertical Profile Boring	2 / 14	4 / 28	6 / 42
Revised Work Plan for Vadose Zone Characterization, Environmental Conditions Investigation, LOU Area Nos. 4, 5, 8, 9, 10 and 12 (PES, 2013)	Vadose Zone Vertical Profile Boring	2 / 8	3 / 12	3 / 12
Total Number of Sample Locations		**10**	**17**	**20**
Total Number of Samples		**29**	**52**	**75**

[1]**Document References and Data Validation Level for Sampling Programs**

PES, 2007a. Data Transmittal Report, Results of Additional Vadose Zone Characterization, Former Stauffer Chemical Company Facility, Henderson, Nevada. March 26. [Stage 2B/4 Data Validation]

PES, 2007b. Data Transmittal Report, Assessment of Soil Covers, Former Stauffer Chemical Company Facility, Henderson, Nevada. October 16. [Stage 2B/4 Data Validation]

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PES, 2013b. Data Validation Summary Report and Electronic Data Deliverable, Revised Work Plan for Vadose Zone Characterization, Environmental Conditions Investigation, LOU Area Nos. 4, 5, 8, 9, 10 and 12, Former Stauffer Chemical Company Facility, Olin Chlor Alkali Products, Henderson, Nevada. November 12. [Stage 2A/4 Data Validation]

Table 2. Summary of Laboratory Analytical Programs from Previous Vadose Zone Characterization Activities
Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

Waste Management Area	Sample Location (Depth in ft bgs)	Analytical Group												
		Aldehydes	Asbestos	Dioxins	Geophysical	Hydrocarbons	Inorg/Gen	Metals	OC Pesticides	OP Pesticides	Organic Acids	PCBs	SVOCs	VOCs
Leach Beds (LOU No. 9)	SB-EC-136 (0-0.5)		X						X		X			X
Leach Beds	SB-EC-136 (4.5-5)								X		X			X
Leach Beds	SB-EC-136 (9.5-10)								X		X			X
Leach Beds	SB-EC-136 (19.5-20)								X		X			X
Leach Beds	SB-EC-138 (0-0.5)		X						X		X			X
Leach Beds	SB-EC-138 (4.5-5)								X		X			X
Leach Beds	SB-EC-138 (9.5-10)								X		X			X
Leach Beds	SB-EC-138 (19.5-20)								X		X			X
Leach Beds	SB-EC58 (0-0.5)			X	X		X	X	X	X	X	X	X	X
Leach Beds	SB-EC58 (9.5-10)						X	X	X	X	X	X	X	X
Leach Beds	SB-EC58 (19.5-20)						X	X	X	X	X	X	X	X
Leach Beds	SB-EC58 (29.5-30)						X	X	X	X	X	X	X	X
Leach Beds	SB-EC58 (39.5-40)						X	X	X	X	X	X	X	X
Leach Beds	SB-EC-88 (2-2.5)							X	X					X
Leach Beds	SB-EC-88 (5-5.5)							X	X					X
Leach Beds	SB-EC-88 (10-10.5)							X	X					X
Leach Beds	SB-EC-88 (15-15.5)							X	X					X
Leach Beds	SB-EC-88 (19.5-20)							X	X					X
Leach Beds	SB-EC-99 (2-2.5)							X	X					X
Leach Beds	SB-EC-99 (3-3.5)							X	X					X
Leach Beds	SB-EC-99 (5-5.5)							X	X					X
Leach Beds	SB-EC-99 (10-10.5)							X	X					X
Leach Beds	SB-EC-99 (15-15.5)							X	X					X
Leach Beds	SB-EC-99 (19.5-20)							X	X					X
Leach Beds	SB-EC-99 (25-25.5)							X	X					X
Leach Beds	SB-EC-99 (30-30.5)							X	X					X
Leach Beds	SB-EC-99 (34.5-35)							X	X					X
Leach Beds	WC-01 (5-7)			X	X		X	X	X	X	X	X	X	X
Leach Beds	WC-02 (5-7)			X	X		X	X	X	X	X	X	X	X
Phosphoric Acid Pond (LOU No. 4)	SB-EC-104 (2-2.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (3-3.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (5-5.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (10-10.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (15-15.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (20-20.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (25-25.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (30-30.5)							X	X					X
Phosphoric Acid Pond	SB-EC-104 (34.5-35)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (2-2.5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (3-3.5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (4.5-5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (10-10.5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (14.5-15)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (20-20.5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (25-25.5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (30-30.5)							X	X					X
Phosphoric Acid Pond	SB-EC-105 (35-35.5)							X	X					X

Table 2. Summary of Laboratory Analytical Programs from Previous Vadose Zone Characterization Activities Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

Waste Management Area	Sample Location (Depth in ft bgs)	Analytical Group												
		Aldehydes	Asbestos	Dioxins	Geophysical	Hydrocarbons	Inorg/Gen	Metals	OC Pesticides	OP Pesticides	Organic Acids	PCBs	SVOCs	VOCs
Phosphoric Acid Pond (LOU No. 4)	SB-EC-106 (2-2.5)							X	X					X
Phosphoric Acid Pond	SB-EC-106 (5-5.5)							X	X					X
Phosphoric Acid Pond	SB-EC-106 (10-10.5)							X	X					X
Phosphoric Acid Pond	SB-EC-106 (15-15.5)							X	X					X
Phosphoric Acid Pond	SB-EC-106 (19-19.5)							X	X					X
Phosphoric Acid Pond	SB-EC-135 (0-0.5)		X						X		X			X
Phosphoric Acid Pond	SB-EC-135 (4.5-5)								X		X			X
Phosphoric Acid Pond	SB-EC-135 (12.5-13)								X		X			X
Phosphoric Acid Pond	SB-EC-135 (19.5-20)								X		X			X
Phosphoric Acid Pond	SB-EC-137 (0-0.5)		X						X		X			X
Phosphoric Acid Pond	SB-EC-137 (4.5-5)								X		X			X
Phosphoric Acid Pond	SB-EC-137 (9.5-10)								X		X			X
Phosphoric Acid Pond	SB-EC-137 (19.5-20)								X		X			X
Phosphoric Acid Pond	SB-EC-139 (0-0.5)								X		X			X
Phosphoric Acid Pond	SB-EC-139 (4.5-5)								X		X			X
Phosphoric Acid Pond	SB-EC-139 (9.5-10)								X		X			X
Phosphoric Acid Pond	SB-EC-139 (19.5-20)								X		X			X
Phosphoric Acid Pond	SB-EC57 (29.5-30)						X	X	X	X	X	X	X	X
Phosphoric Acid Pond	SB-EC57 (39.5-40)						X	X	X	X	X	X	X	X
Phosphoric Acid Pond	SB-EC57 (0-0.5)			X	X		X	X	X	X	X	X	X	X
Phosphoric Acid Pond	SB-EC57 (9.5-10)						X	X	X	X	X	X	X	X
Phosphoric Acid Pond	SB-EC57 (19.5-20)						X	X	X	X	X	X	X	X
Phosphoric Acid Pond	SB-EC-90 (1.5-2)							X	X					X
Phosphoric Acid Pond	SB-EC-90 (5-5.5)							X	X					X
Phosphoric Acid Pond	SB-EC-90 (12-12.5)							X	X					X
Phosphoric Acid Pond	SB-EC-90 (15-15.5)							X	X					X
Phosphoric Acid Pond	SB-EC-90 (19.5-20)							X	X					X
Phosphoric Acid Pond	TP-49 (0-0.25)							X	X					
Phosphoric Acid Pond	TP-49 (1-1.25)							X	X					
Phosphoric Acid Pond	WC-03 (10-12)			X	X		X	X	X	X	X	X	X	X
Phosphoric Acid Pond	WC-03 (13-15)			X	X		X	X	X	X	X	X	X	X
Phosphoric Acid Pond	WC-04 (8-10)			X	X		X	X	X	X	X	X	X	X
Phosphoric Acid Pond	WCTP-14 (2.5-3.5)							X						
Phosphoric Acid Pond	WCTP-20 (2-4)							X						
Three Trenches (LOU No. 4)	EC-09 (0-0.5)	X	X	X		X	X	X	X	X	X	X	X	X
Three Trenches	EC-09 (7.5-8)	X				X	X	X	X	X	X		X	X
Three Trenches	EC-09 (25-25.5)	X				X	X	X	X	X	X		X	X
Three Trenches	EC-09 (41-41.5)	X				X	X	X	X	X	X		X	X
Three Trenches	EC-14 (0-0.5)			X	X		X	X	X	X	X	X	X	X
Three Trenches	EC-14 (9.5-10)						X	X	X	X	X	X	X	X
Three Trenches	EC-14 (19.5-20)						X	X	X	X	X	X	X	X
Three Trenches	EC-14 (29.5-30)						X	X	X	X	X	X	X	X
Three Trenches	EC-14 (40.5-41)						X	X	X	X	X	X	X	X
Three Trenches	SB-EC59 (0-0.5)			X	X		X	X	X	X	X	X	X	X
Three Trenches	SB-EC59 (9.5-10)						X	X	X	X	X	X	X	X
Three Trenches	SB-EC59 (19.5-20)						X	X	X	X	X	X	X	X
Three Trenches	SB-EC59 (29.5-30)						X	X	X	X	X	X	X	X
Three Trenches	SB-EC59 (39.5-40)						X	X	X	X	X	X	X	X

Table 2. Summary of Laboratory Analytical Programs from Previous Vadose Zone Characterization Activities Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

Waste Management Area	Sample Location (Depth in ft bgs)	Analytical Group												
		Aldehydes	Asbestos	Dioxins	Geophysical	Hydrocarbons	Inorg/Gen	Metals	OC Pesticides	OP Pesticides	Organic Acids	PCBs	SVOCs	VOCs
Three Trenches (LOU No. 4)	SB-EC-100 (2-2.5)							X	X					X
Three Trenches	SB-EC-100 (5-5.5)							X	X					X
Three Trenches	SB-EC-100 (10-10.5)							X	X					X
Three Trenches	SB-EC-100 (15-15.5)							X	X					X
Three Trenches	SB-EC-100 (20-20.5)							X	X					X
Three Trenches	SB-EC-101 (2-2.5)							X	X					X
Three Trenches	SB-EC-101 (5-5.5)							X	X					X
Three Trenches	SB-EC-101 (10-10.5)							X	X					X
Three Trenches	SB-EC-101 (15-15.5)							X	X					X
Three Trenches	SB-EC-101 (19.5-20)							X	X					X
Three Trenches	SB-EC-102 (2-2.5)							X	X					X
Three Trenches	SB-EC-102 (3-3.5)							X	X					X
Three Trenches	SB-EC-102 (4.5-5)							X	X					X
Three Trenches	SB-EC-102 (10-10.5)							X	X					X
Three Trenches	SB-EC-102 (15-15.5)							X	X					X
Three Trenches	SB-EC-102 (20-20.5)							X	X					X
Three Trenches	SB-EC-102 (24.5-25)							X	X					X
Three Trenches	SB-EC-102 (30-30.5)							X	X					X
Three Trenches	SB-EC-102 (35-35.5)							X	X					X
Three Trenches	SB-EC-103 (2-2.5)							X	X					X
Three Trenches	SB-EC-103 (3-3.5)							X	X					X
Three Trenches	SB-EC-103 (5-5.5)							X	X					X
Three Trenches	SB-EC-103 (10-10.5)							X	X					X
Three Trenches	SB-EC-103 (15-15.5)							X	X					X
Three Trenches	SB-EC-103 (20-20.5)							X	X					X
Three Trenches	SB-EC-103 (25-25.5)							X	X					X
Three Trenches	SB-EC-103 (30-30.5)							X	X					X
Three Trenches	SB-EC-103 (35-35.5)							X	X					X
Three Trenches	SB-EC-132 (0-0.5)		X						X		X			X
Three Trenches	SB-EC-132 (4.5-5)								X		X			X
Three Trenches	SB-EC-132 (9.5-10)								X		X			X
Three Trenches	SB-EC-132 (19.5-20)								X		X			X
Three Trenches	SB-EC-133 (0-0.5)		X						X		X			X
Three Trenches	SB-EC-133 (7.5-8)								X		X			X
Three Trenches	SB-EC-133 (12.5-13)								X		X			X
Three Trenches	SB-EC-133 (19.5-20)								X		X			X
Three Trenches	SB-EC-134 (0-0.5)		X						X		X			X
Three Trenches	SB-EC-134 (4.5-5)								X		X			X
Three Trenches	SB-EC-134 (9.5-10)								X		X			X
Three Trenches	SB-EC-134 (19.5-20)								X		X			X
Three Trenches	SB-EC-89 (1.5-2)							X	X					X
Three Trenches	SB-EC-89 (5-5.5)							X	X					X
Three Trenches	SB-EC-89 (10-10.5)							X	X					X
Three Trenches	SB-EC-89 (15-15.5)							X	X					X

Table 2. Summary of Laboratory Analytical Programs from Previous Vadose Zone Characterization Activities Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

Waste Management Area	Sample Location (Depth in ft bgs)	Analytical Group												
		Aldehydes	Asbestos	Dioxins	Geophysical	Hydrocarbons	Inorg/Gen	Metals	OC Pesticides	OP Pesticides	Organic Acids	PCBs	SVOCs	VOCs
Three Trenches (LOU No. 4)	SB-EC-89 (19.5-20)							X	X					X
Three Trenches	SB-EC-98 (2-2.5)							X	X					X
Three Trenches	SB-EC-98 (3-3.5)							X	X					X
Three Trenches	SB-EC-98 (5-5.5)							X	X					X
Three Trenches	SB-EC-98 (10-10.5)							X	X					X
Three Trenches	SB-EC-98 (15-15.5)							X	X					X
Three Trenches	SB-EC-98 (20-20.5)							X	X					X
Three Trenches	SB-EC-98 (25-25.5)							X	X					X
Three Trenches	SB-EC-98 (30-30.5)							X	X					X
Three Trenches	SB-EC-98 (35-35.5)							X	X					X
Three Trenches	TP-58 (0-0.25)							X	X					
Three Trenches	TP-58 (1-1.25)							X	X					
Three Trenches	TP-61 (0-0.25)							X	X					
Three Trenches	TP-61 (1-1.25)							X	X					
Three Trenches	WC-05 (7-9)			X	X		X	X	X	X	X	X	X	X
Three Trenches	WC-06 (7-9)			X	X		X	X	X	X	X	X	X	X
Three Trenches	WC-07 (8-10)			X	X		X	X	X	X	X	X	X	X

Notes

Inorg/Gen = Inorganics and General Chemistry Parameters
OC Pesticides = Organochlorine Pesticides
OP Pesticides = Organophosphorus Pesticides
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-Volatile Organic Compounds
VOCs = Volatile Organic Compounds
LOU = Letter of Understanding

Table 3. Summary of Risk-Based Screening of Chemicals in Soil
NDEP BCLs for Outdoor Commercial/Industrial Worker Scenario
Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

Analytle Group	Analyte	No. Samples	No. Detct.	Frq. Detct.	No. ≥BCL[1]	Frq. ≥BCL	Max. Sample Depth Interval ≥BCL[2] (ft)
Metals	Arsenic	124	119	96.0%	112	90.3%	41.0-41.5
Organic Acid	4-Chlorobenzenesulfonic Acid	64	32	50.0%	10	15.6%	13.0-15.0
Asbestos	Total Asbestos Protocol Structures	8	1	12.5%	1	12.5%	0.0-0.5
VOC	Benzene	148	108	73.0%	14	9.5%	39.5-40.0
OCPs	4,4'-DDT	153	35	22.9%	14	9.2%	35.0-35.5
OCPs	Beta-HCH	154	125	81.2%	14	9.1%	30.0-30.5
OCPs	Alpha-HCH	154	123	79.9%	13	8.4%	19.0-19.5
OCPs	Gamma-HCH	153	65	42.5%	11	7.2%	19.0-19.5
VOC	1,4-Dichlorobenzene	148	53	35.8%	5	3.4%	15.0-15.5
SVOC	Benzo(b)fluoranthene	30	1	3.3%	1	3.3%	8.0-10.0
SVOC	1,1'-Sulfonybis Benzene	32	7	21.9%	1	3.1%	8.0-10.0
Metals	Magnesium	40	40	100.0%	1	2.5%	2.5-3.5
VOC	1,2,4-Trichlorobenzene	148	98	66.2%	3	2.0%	19-19.5
OCPs	Delta-HCH	153	38	24.8%	1	0.7%	1.5-2
Dioxans/Furans	(Various - Refer to Appendix B, Table B-1)	13	8	61.5%	0	0.0%	--
Aldehydes	(Various - Refer to Appendix B, Table B-1)	4	2	50.0%	0	0.0%	--
Gen. Chem.	(Various - Refer to Appendix B, Table B-1)	32	12	37.5%	0	0.0%	--
Hydrocarb/Alc.	(Various - Refer to Appendix B, Table B-1)	4	0	0.0%	0	0.0%	--
OPPs	(Various - Refer to Appendix B, Table B-1)	32	0	0.0%	0	0.0%	--
PCBs	(Various - Refer to Appendix B, Table B-1)	29	0	0.0%	0	0.0%	--

Notes

[1] Nevada Department of Environmental Protection (NDEP) Basic Comparison Level (BCL) for Outdoor Commercial/Industrial Worker (NDEP, August 2013)

[2] Maximum sample collection depth interval with reported analyte concentration ≥ respective BCL

Gen. Chem. = Inorganic / General Chemistry Parameters
Hydrocarb/Alc. = Hydrocarbons / Alcohols
OCPs = Organochlorine Pesticides
OPPs = Organophosporus Pesticides
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-Volatile Organic Compounds
VOCs = Volatile Organic Compounds
4,4'-DDT = 4,4'-Dichlorodiphenyltrichloroethane
HCH = Hexachlorocyclohexane
LOU = Letter of Understanding
No. = Number
Detct. = Detection
Frq. = Frequency
≥ = Greater than or equal to
-- = Not Applicable

Table 4. Summary of Leaching-Based Screening of Chemicals in Shallow Soil
NDEP Leaching-Based BCLs (Dilution Attenuation Factor of 20)
Leach Beds (LOU No. 9) and Phosphoric Acid Pond and Three Trenches (LOU No.4)

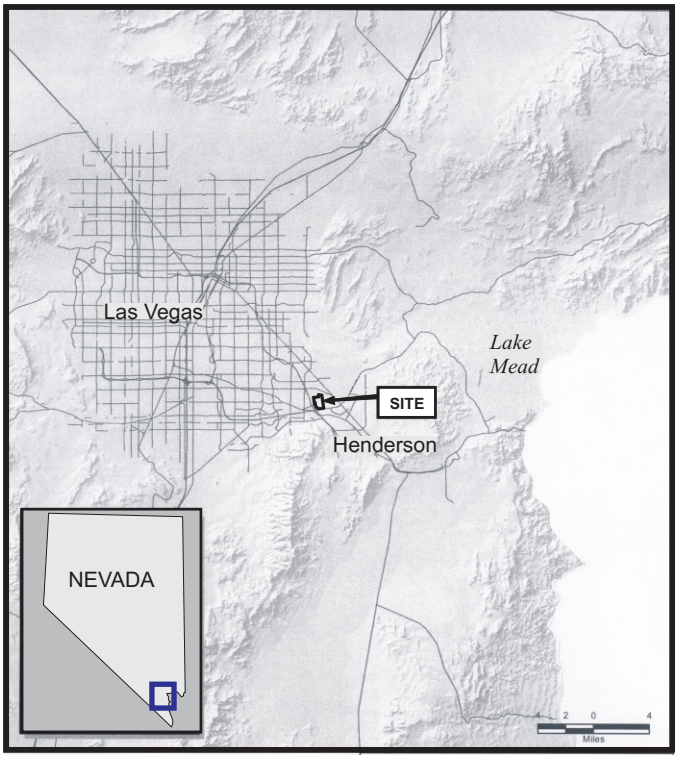
Analytle Group	Analyte	No. Samples	No. Detct.	Frq. Detct.	No. ≥LBCL[(1)]	Frq. ≥LBCL
Metals	Iron	24	24	100.0%	24	100.0%
Metals	Manganese	30	30	100.0%	26	86.7%
Metals	Aluminum	30	29	96.7%	25	83.3%
Metals	Magnesium	24	24	100.0%	4	16.7%
Metals	Antimony	30	15	50.0%	1	3.3%
Metals	Selenium	30	15	50.0%	1	3.3%
OCPs	Beta-HCH	85	78	91.8%	69	81.2%
OCPs	Alpha-HCH	85	74	87.1%	35	41.2%
OCPs	Gamma-HCH	84	40	47.6%	32	38.1%
OCPs	4,4'-DDT	84	18	21.4%	1	1.2%
Organic Acids	4-Chlorobenzenesulfonic Acid	38	17	44.7%	14	36.8%
SVOCs	Benzo(b)fluoranthene	14	1	7.1%	1	7.1%
VOCs	Benzene	79	52	65.8%	12	15.2%
VOCs	Chlorobenzene	79	53	67.1%	7	8.9%
VOCs	1,4-Dichlorobenzene	79	25	31.6%	2	2.5%
VOCs	1,2,4-Trichlorobenzene	79	63	79.7%	1	1.3%
VOCs	n-Heptane	79	17	21.5%	1	1.3%
VOCs	Tetrachloroethene	79	5	6.3%	1	1.3%

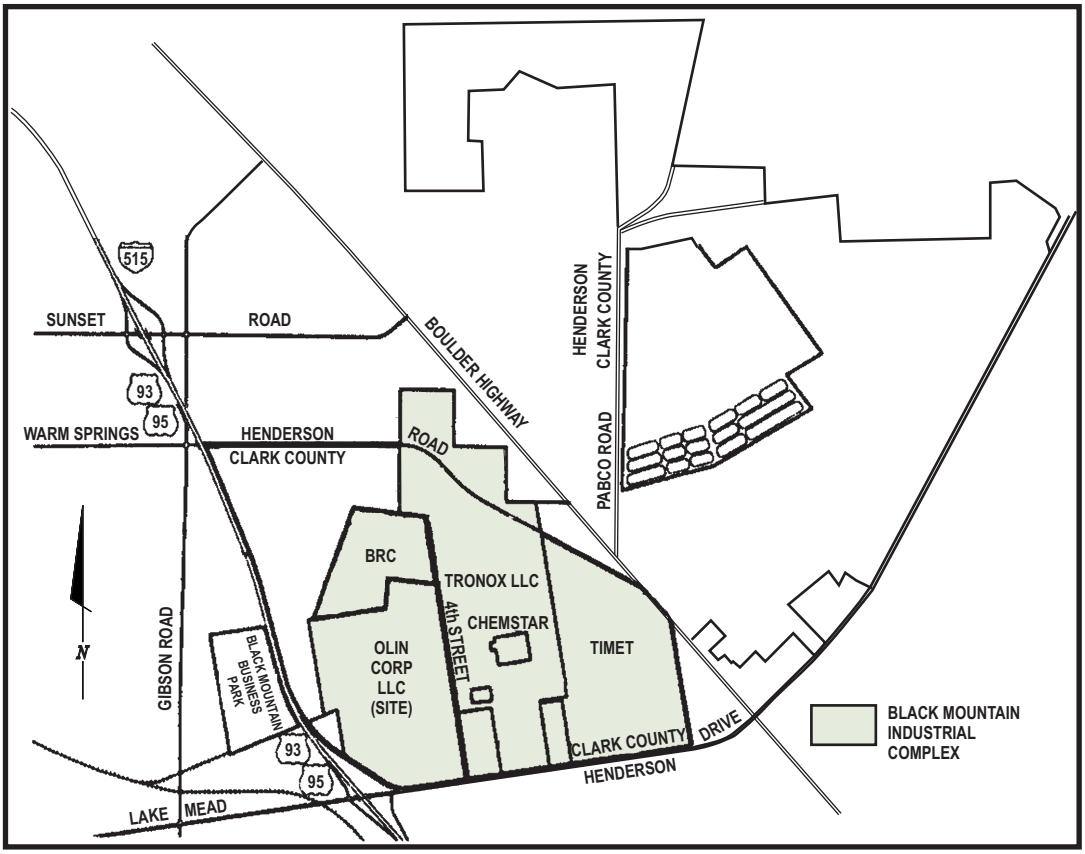
Notes

[1] Nevada Department of Environmental Protection (NDEP) Leaching-Based Basic Comparison Level (LBCL) for Protection of Groundwater (NDEP, August 2013)

Gen. Chem. = Inorganic / General Chemistry Parameters
Hydrocarb/Alc. = Hydrocarbons / Alcohols
OCPs = Organochlorine Pesticides
OPPs = Organophosporus Pesticides
PCBs = Polychlorinated Biphenyls
SVOCs = Semi-Volatile Organic Compounds
VOCs = Volatile Organic Compounds
4,4'-DDT = 4,4'-Dichlorodiphenyltrichloroethane
4,4'-DDE = 4,4'-Dichlorodiphenyldichloroethylene
HCH = Hexachlorocyclohexane
LOU = Letter of Understanding
No. = Number
Detct. = Detection
Frq. = Frequency
≥ = Greater than or equal to

PLATES





PES Environmental, Inc.
Engineering & Environmental Services

Site Location Map
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE
1

924.001.02.018	92400102018_CSM_DBA_1	PDG	2/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

Explanation

- Stauffer/Pioneer Phase II LOU Study Item
- Montrose Site Feature
- Stauffer Site Feature
- Former BHC Haul Route (LOU No. 12)
- Approximate Property Boundary

N

0 400

APPROXIMATE SCALE IN FEET

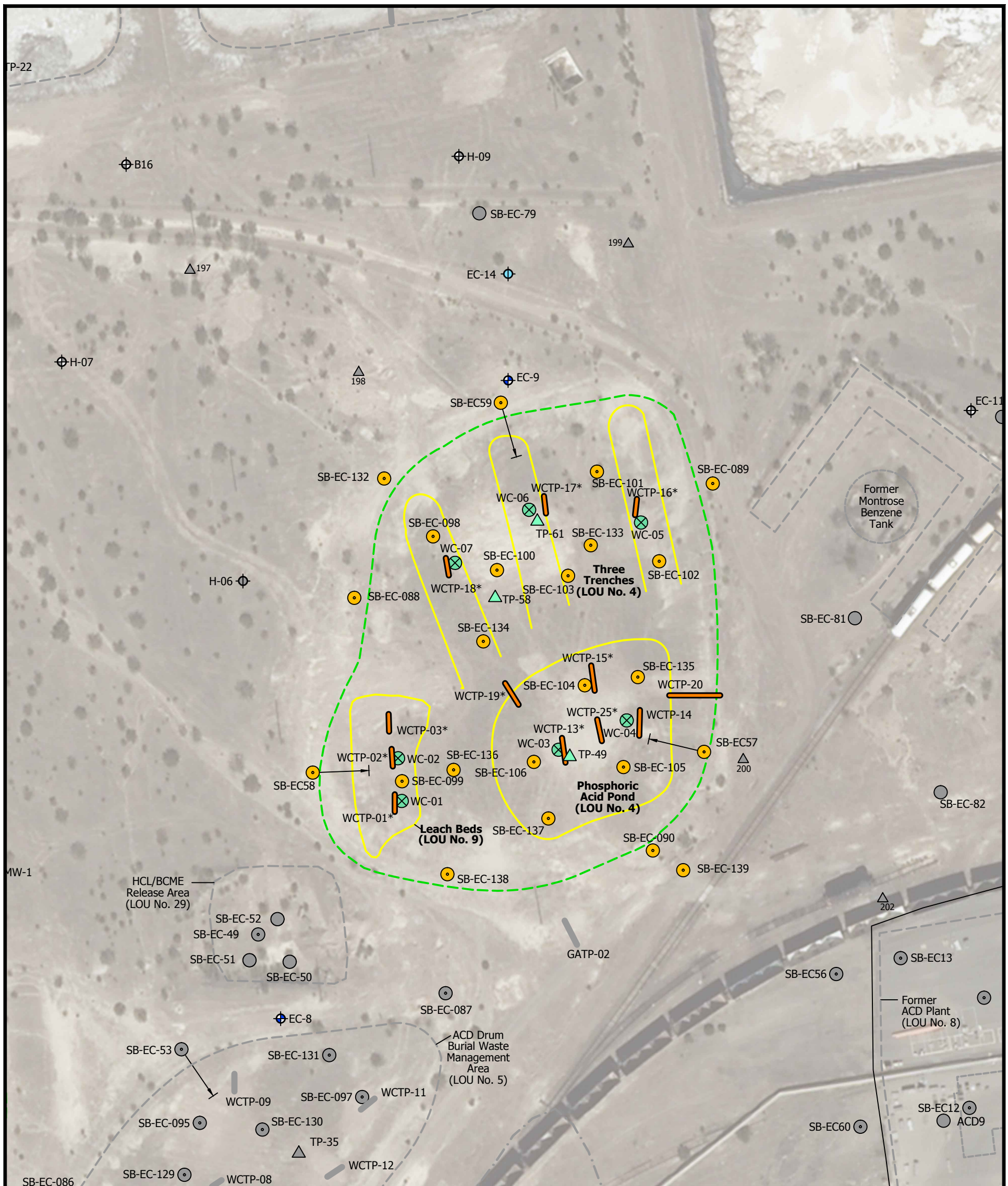
Base Map: Aerial Photograph October 2011

PES Environmental, Inc.
Engineering & Environmental Services

Site Plan
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE 2

924.001.02.018	92400102018_CSM_PHOS_2	PDG	2/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



EXPLANATION

Sample Locations

- SB-EC-53 — Deep Soil Boring (and projected completion distance for angled boring)
- SB-EC-75 — Shallow Soil Boring
- WC-01 — Waste Characterization Boring
- 200 — Surface Soil Sample ("SS-EC-" ID Prefix)
- TP-62 — Surface Cover Boring
- WCTP-01 — Waste Characterization Exploratory Trench
- EC-9 — Shallow Zone Groundwater Monitoring Well
- EC-14 — Middle Zone Groundwater Monitoring Well
- SB-EC-79 — Location/Feature Outside of Study Area

Site Features

- Stauffer/Pioneer Phase II LOU Study Item
- Approximate Extent of Waste Material
- * Location for visual inspection of waste material and/or sample for HDPE/Chemical compatibility testing (No samples submitted for laboratory chemical analysis)

All locations are approximate

N

0 80

APPROXIMATE SCALE IN FEET

Base Map: Aerial Photograph July 1976

PES Environmental, Inc.
Engineering & Environmental Services

Sample Location Map
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE 3

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
924.001.02.018	92400102018_CSM_PHOS_3	PDG	2/15

Explanation

- Approximate Boundary of Surface Cover
- Approximate Extent of Waste Materials
- TP-45 Surface Soil Boring
- Surface Cover Boring
- WCTP-01 Waste Characterization Exploratory Trench
- 1800 Results of High Definition Topographic Survey and Ground Surface Elevation (feet NAVD88)
- * Location for visual inspection of waste material and/or sample for HDPE/Chemical compatibility testing (No samples submitted for laboratory chemical analysis)

N

0 50

APPROXIMATE SCALE IN FEET

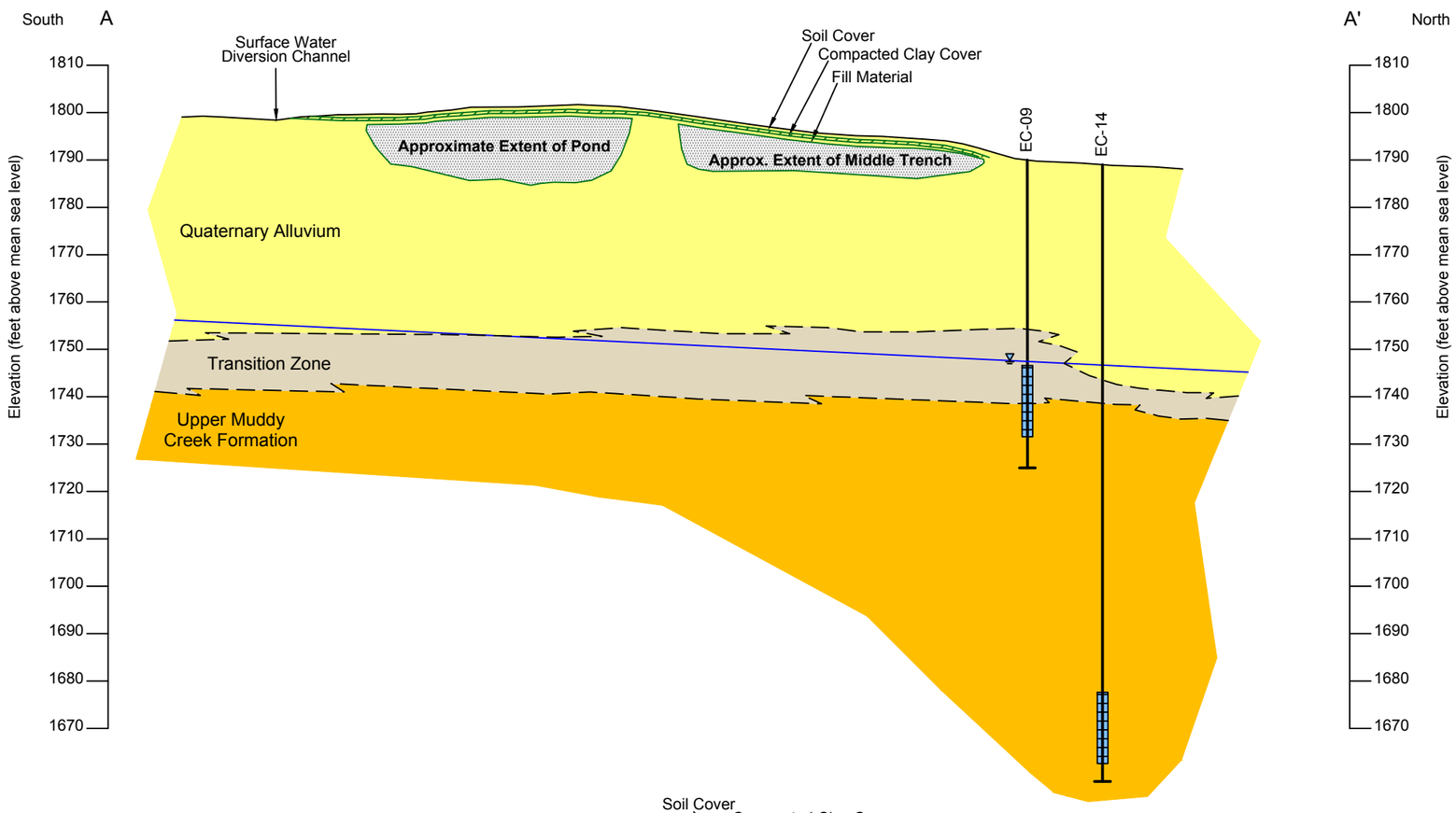
Base Map: Aerial Photograph October 2011

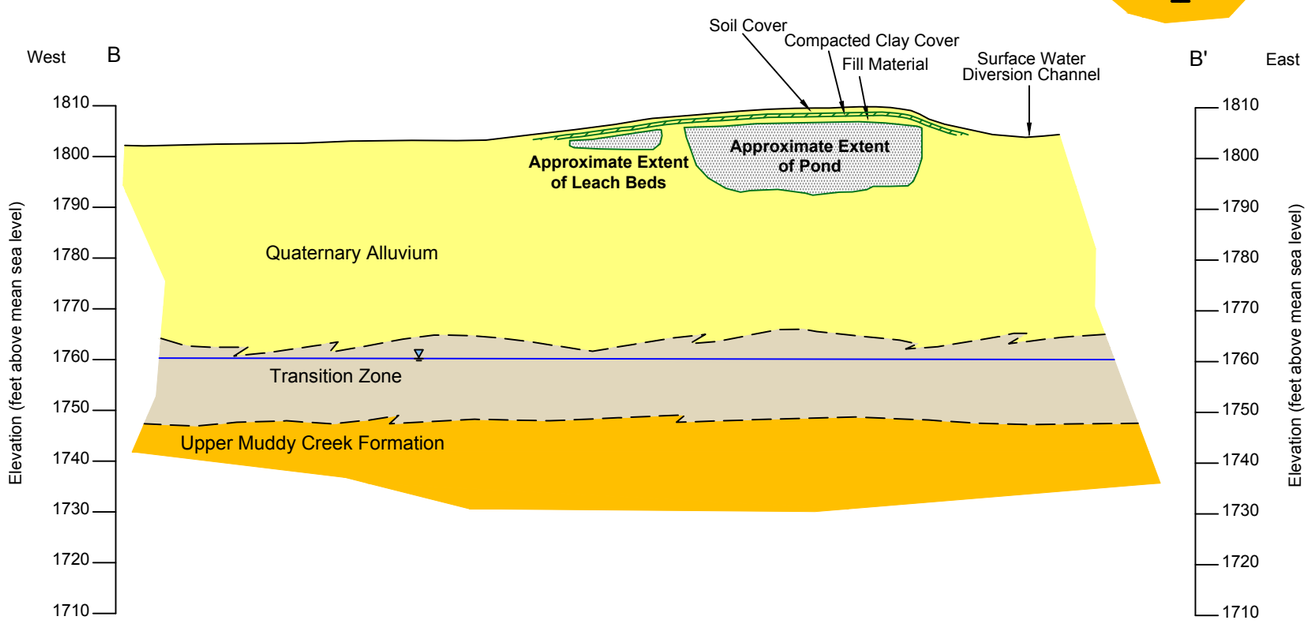
PES Environmental, Inc.
Engineering & Environmental Services

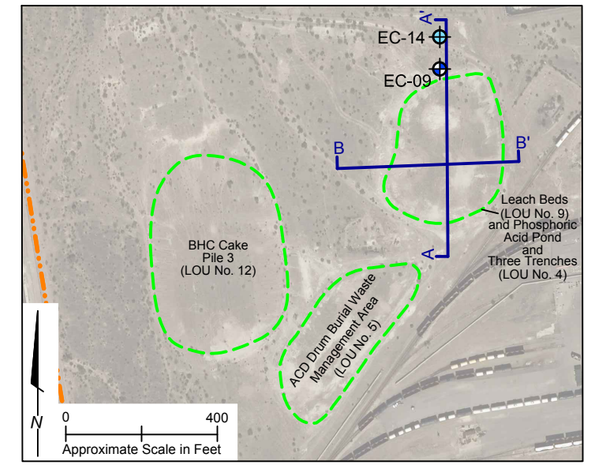
Assessment of Soil Covers and Exploratory Trenches
Leach Beds and Phosphoric Acid Pond and Trenches
Area-Specific Conceptual Site Models
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE 4

924.001.01.011	92400102018_CSM_PHOS_4	PDG	2/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE







Explanation

EC-09 — Shallow Zone Groundwater Monitoring Well

EC-14 — Middle Zone Groundwater Monitoring Well

Approximate Groundwater level

Groundwater Monitoring Well with Screened Interval

Quaternary Alluvium (Qal): predominantly alluvial fan deposits of silty sand, sand, gravel, cobbles and caliche

Transition Zone of Qal/UMCf: predominantly silt and clay intercalated with sand, gravel and/or caliche

Upper Muddy Creek Formation - fine grained (UMCf-fg): predominantly silt and clay with thin interbedded sequences of silty sand and sand with occasional gravel and caliche

30
0
Vertical Scale in Feet

0
80
Horizontal Scale in Feet
3.33x Vertical Exaggeration

PES Environmental, Inc.
Engineering & Environmental Services

Generalized Hydrogeologic Cross Sections Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Facility
Henderson, Nevada

PLATE
5

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
924.001.02.018	92400102018_CSM_PHOS_5	PDG	2/15

Photo 1. Phosphoric Acid Pond (LOU No. 4).
55-ton back hoe with 5,000-lb. hammer needed to penetrate cement-like layer (from 2 to 10 feet bgs) within the Phosphoric Acid Pond.

Photo 2. Phosphoric Acid Pond (LOU No. 4).
Excavation of Exploratory Trench WCTP-25 showing the soil cover, clay cover, red brick fragment and hammering of cement-like material.

PES Environmental, Inc.
Engineering & Environmental Services

Site Photographs
Phosphoric Acid Pond
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE 6

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
924.001.02.018	92400102018_photos	PDG	2/15

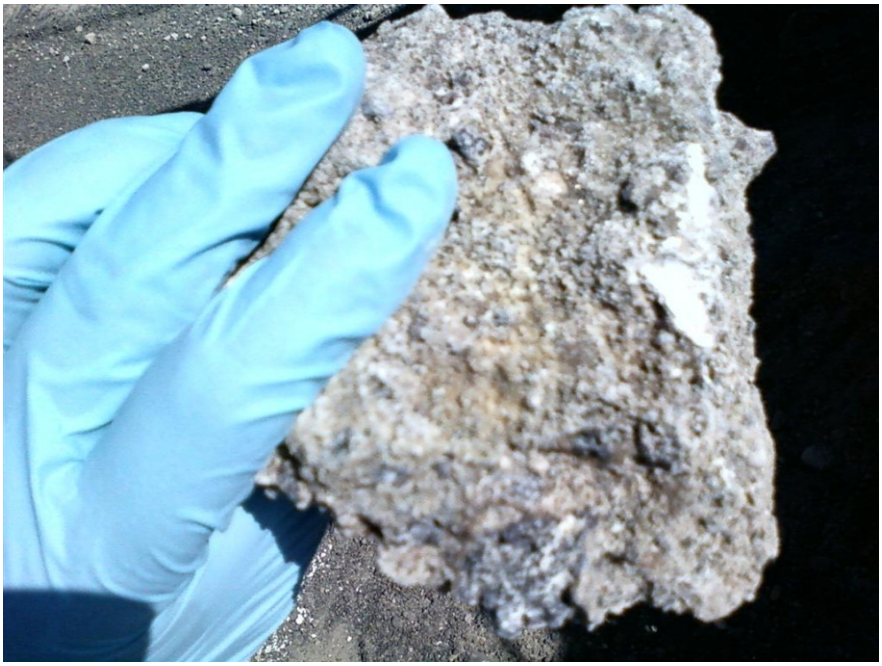


Photo 1. Phosphoric Acid Pond (LOU No. 4).
Cement-like material encountered within the Phosphoric Acid Pond from approximately 2 to 10 feet bgs.

Photo 2. Phosphoric Acid Pond (LOU No. 4).
5-gallon bucket containing waste material collected from Exploratory Trench WCTP-25 at 10 feet bgs. Wet, whitish-gray waste material.

Photo 1. Three Trenches (LOU No. 4).
Profile of Exploratory Trench WCTP-16 showing the soil cover, clay cover, underlying soil, and white chalky material.

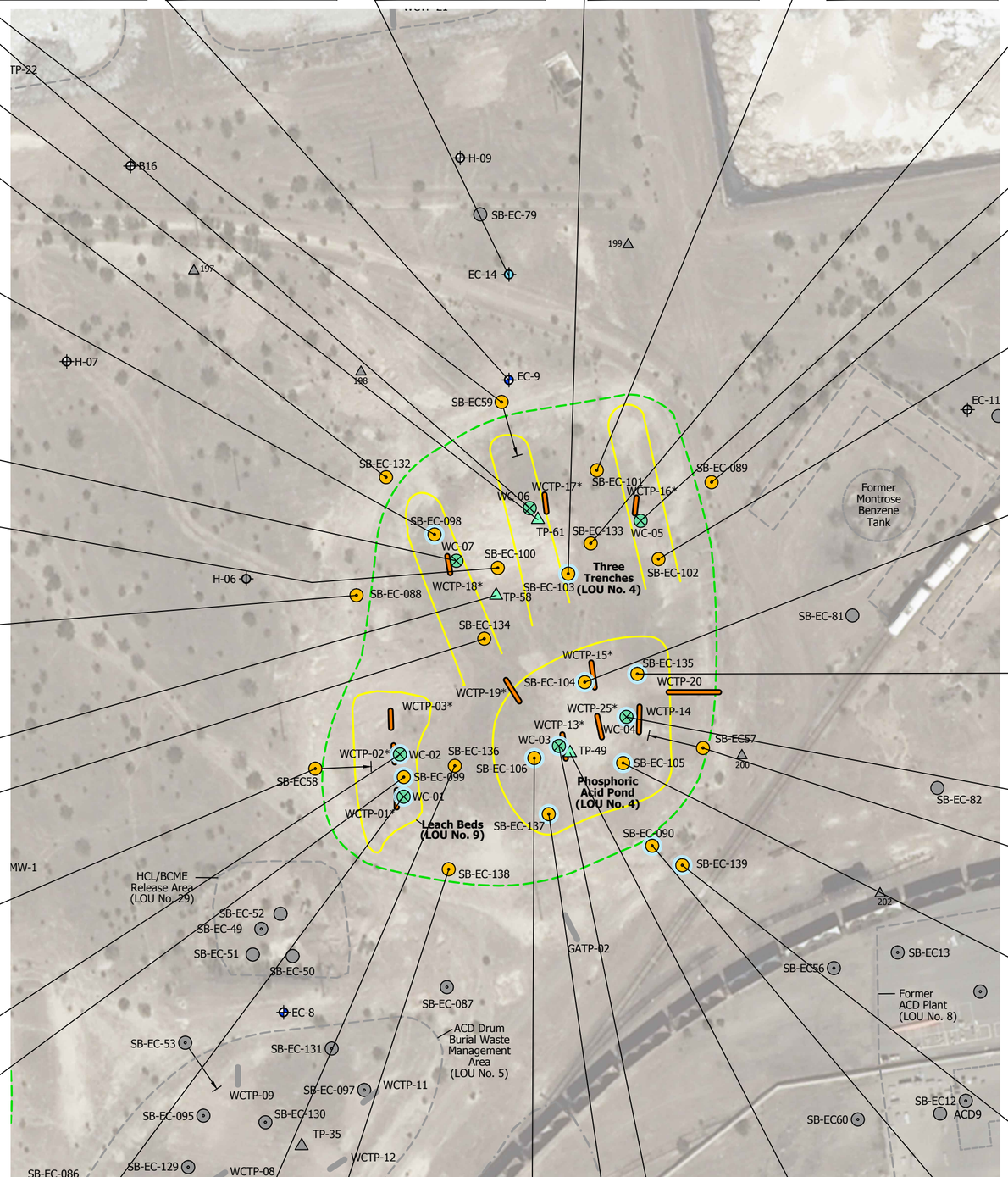
Photo 2. Three Trenches (LOU No. 4).
Bottom of Exploratory Trench WCTP-17 showing a wet, grayish waste material.

PES Environmental, Inc.
Engineering & Environmental Services

Site Photographs
Three Trenches
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE
8

924.001.02.018	92400102018_photos	PDG	2/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



SB-EC59			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	**0.21**	**11**	<0.0015
9.5	**0.13**	**0.13**	<0.0015
19.5	**0.14**	**0.3**	<0.0015
29.5	**0.0066**	**0.046**	<0.0015
39.5	**0.0091**	**0.0055**	<0.0015

EC-09			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	**0.29**	**15**	<0.018
7.5	**0.28**	**3**	<0.018
25	<0.0075	<0.015	<0.018
41	<0.015	<0.03	<0.035

EC-14			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	**0.014**	**0.45**	<0.0045
9.5	**3.1**	**0.45**	<0.044
19.5	**0.004**	<0.0015	<0.0015
29.5	**0.21**	**0.03**	<0.0015
40.5	<0.0015	<0.0015	<0.0015

SB-EC-103			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**27**	**74**	<0.11
3	**16**	**14**	<0.11
5	**5.7**	**3.4**	<0.11
10	**0.0049**	**0.0033**	<0.0015
15	<0.0015	<0.0015	<0.0015
20	<0.0015	**0.0034**	<0.0015
25	**0.0093**	**0.0091**	<0.0015
30	**0.0055**	**0.0058**	<0.0015
35	**0.0027**	**0.002**	<0.0015

SB-EC-101			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**0.15**	**10**	<2.2
5	**0.18**	**0.76**	<0.15
10	**0.29**	**0.21**	<0/06
15	**0.0042**	<0.0015	<0.0015
19.5	**0.044**	**0.016**	<0.0015

WC-06			
ft bgs	a-HCH	b-HCH	4,4'-DDT
7	**1.9**	**0.28**	<0.11

TP-61			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	<0.025	**0.21**	<0.025
1	**0.38**	**0.93**	<0.25

SB-EC-132			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.28**	**2.2**	<0.15
4.5	<0.0078	<0.0078	<0.0078
9.5	<0.016	<0.016	<0.016
19.5	<0.0078	<0.0078	<0.0078

SB-EC-098			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**0.025**	**0.63**	**0.081**
3	<0.0022	**1.4**	<0.011
5	**0.37**	**0.4**	<0.075
10	**0.012**	<0.0015	<0.0015
15	<0.0015	<0.0015	<0.0015
20	**0.3**	**3.4**	**8.9**
25	**0.0062**	<0.0045	<0.0045
30	<0.045	<0.045	<0.045
35	<0.0045	<0.0045	<0.0045

WC-07			
ft bgs	a-HCH	b-HCH	4,4'-DDT
8	**4.2**	**1.5**	<0.11

SB-EC-100			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**0.095**	**3.9**	**0.32**
5	**0.077**	**0.1**	<0.0015
10	**0.037**	**0.006**	<0.0015
15	**2.8**	**0.41**	**0.41**
20	**0.013**	**0.0035**	<0.0015

SB-EC-088			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**0.021**	**0.042**	<0.0015
5	**0.036**	**0.016**	<0.0015
10	**0.0038**	<0.0015	<0.0015
15	**0.0036**	<0.0015	<0.0015
19.5	**0.0083**	<0.0015	<0.0015

TP-58			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	**0.085**	**0.49**	<0.1
1	<0.5	**1.5**	<0.5

SB-EC-134			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.024**	**0.44**	<0.015
4.5	**6.5**	**6.4**	**3.4**
9.5	<0.016	<0.016	<0.0016
19.5	<0.0078	<0.0078	<0.0078

SB-EC58			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	**0.0079**	**0.51**	**0.016**
9.5	**0.045**	**0.2**	<0.0015
19.5	<0.0015	**0.0062**	<0.0015
29.5	**0.0035**	**0.0046**	<0.0045
39.5	<0.003	<0.003	<0.03

WC-02			
ft bgs	a-HCH	b-HCH	4,4'-DDT
5	**0.53**	**3.4**	**16**

SB-EC-099			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**0.6**	**4**	**3.3**
3	**1.3**	**4**	**4.7**
5	**0.078**	**88**	<0.011
10	**0.21**	**0.94**	**0.28**
15	**0.55**	**4.9**	<0.45
19.5	**0.7**	**1.3**	**1.1**
25	**0.74**	**2.7**	**3.2**
30	**0.035**	**75**	**0.032**
34.5	**0.26**	**1.8**	<0.0045

WC-01			
ft bgs	a-HCH	b-HCH	4,4'-DDT
5	**0.71**	**0.51**	**3300**

SB-EC-136			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.32**	**0.47**	**0.0018**
4.5	<0.081	**1.6**	**0.20**
9.5	<0.0078	<0.0078	<0.0078
19.5	<0.0016	<0.0016	<0.0016

SB-EC-138			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.086**	**6.0**	**0.0078**
4.5	**11**	**2.3**	**0.77**
9.5	**0.0043**	**0.0056**	<0.0031
19.5	**0.0019**	<0.0016	<0.0016

SB-EC-106			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**92**	**26**	<1.1
5	**12**	**7.2**	<0.22
10	**510**	**35**	**13**
15	**2,100**	**190**	**2,500**
19	**560**	**64**	**3000**

WC-03			
ft bgs	a-HCH	b-HCH	4,4'-DDT
10	**80,000**	**830**	**1700**
13	**1,400**	**130**	**19**

SB-EC-137			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.17**	**0.82**	**0.011**
4.5	**1.3**	**1.9**	**0.41**
9.5	**1,300**	**160**	<5.6
19.5	**2.1**	**0.37**	<0.077

TP-49			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	<0.025	**0.26**	<0.025
1	<0.006	**0.094**	<0.01

SB-EC-133			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.085**	**0.54**	**0.0077**
7.5	**0.026**	**0.017**	<0.0016
12.5	<0.0016	**0.0018**	<0.0016
19.5	<0.0078	<0.0078	<0.0078

WC-05			
ft bgs	a-HCH	b-HCH	4,4'-DDT
7	**53**	**8.8**	<0.11

SB-EC-089			
ft bgs	a-HCH	b-HCH	4,4'-DDT
1.5	**0.23**	**37**	<0.045
5	**0.033**	**0.32**	<0.0015
10	**0.0035**	**0.0031**	<0.0015
15	**0.0039**	**0.0048**	<0.0015
19.5	**0.0019**	<0.0015	<0.0015

SB-EC-102			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**98**	**44**	<0.11
3	**46**	**24**	<0.11
4.5	**4.2**	**2.9**	<0.0045
10	**4.2**	**0.82**	<0.022
15	**0.12**	**0.056**	<0.0015
20	**0.15**	**0.061**	<0.0015
24.5	**0.12**	**0.07**	<0.0015
30	**0.041**	**0.024**	<0.0015
35	**0.021**	**0.011**	<0.0015

SB-EC-104			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**79**	**13**	<0.11
3	**0.88**	**0.37**	<0.011
5	**2**	**0.48**	<0.0022
10	**51**	**3**	<0.11
15	**5.7**	**0.52**	<0.45
20	**10**	**1.4**	<0.045
25	**25**	**3.1**	**310**
30	**110**	**10**	**460**
34.5	**21**	**3.1**	<0.22

SB-EC-135			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**0.36**	**1.4**	0.012
4.5	<0.023	<0.023	<0.023
12.5	**450**	**95**	**7.1**
19.5	**0.45**	**0.052**	<0.0077

WC-04			
ft bgs	a-HCH	b-HCH	4,4'-DDT
8	**4,500**	**470**	<11

SB-EC57			
ft bgs	a-HCH	b-HCH	4,4'-DDT
0	**0.045**	**3**	**0.0079**
9.5	**0.36**	**0.25**	<0.0015
19.5	<0.0015	<0.0015	<0.0015
29.5	**0.0018**	<0.0015	<0.0015
39.5	**0.0024**	<0.0015	<0.0015

SB-EC-105			
ft bgs	a-HCH	b-HCH	4,4'-DDT
2	**3.8**	**2.8**	<0.022
3	**2**	**1.5**	<0.0075
4.5	**4,500**	**5.5**	<0.045
10	**5,800**	**300**	<0.11
14.5	**780**	**69**	**65**
20	**30**	**3.3**	**480**
25	**32**	**2.6**	**36**
30	**12**	**1.2**	**120**
35	**39**	**3.3**	**110**

SB-EC-139			
ft bgs	a-BHC	b-BHC	4,4'-DDT
0	**13**	**6.1**	<0.76
4.5	**380**	**14**	<0.031
9.5	**0.99**	**0.35**	<0.031
19.5	**0.086**	**0.0037**	<0.0016

SB-EC-090			
ft bgs	a-HCH	b-HCH	4,4'-DDT
1.5	**1,300**	**250**	<0.22
5	**2,700**	**330**	<0.16
12	**0.11**	**0.013**	<0.0015
15	**0.29**	**0.05**	<0.0075
19.5	**0.76**	**0.062**	<0.011

EXPLANATION

Sample Locations

- SB-EC-53 — Deep Soil Boring (and projected completion distance for angled boring)
- SB-EC-75 — Shallow Soil Boring
- WC-01 — Waste Characterization Boring
- 200 — Surface Soil Sample ("SS-EC-" ID Prefix)
- TP-62 — Surface Cover Boring
- WCTP-01 — Waste Characterization Exploratory Trench
- EC-9 — Shallow Zone Groundwater Monitoring Well
- EC-14 — Middle Zone Groundwater Monitoring Well
- SB-EC-79 — Location/Feature Outside of Study Area

Analytical Results

- ft bgs — Feet below ground surface (sample start depth)
- **5.5** — Concentration presented in milligrams per kilogram (mg/kg)
- <0.0015 — Chemical not detected at or above respective sample quantitation limit
- Concentration detected at or above respective NDEP BCL (2013) for Outdoor Industrial/Commercial Worker:
  a-HCH = 270 mg/kg,
  b-HCH = 53.9 mg/kg
  4,4'-DDT = 7.81 mg/kg
- * — Location for visual inspection of waste material and/or sample for HDPE/Chemical compatibility testing (No samples submitted for laboratory chemical analysis)

Site Features

- Stauffer/Pioneer Phase II LOU Study Item
- Approximate Extent of Waste Material

All locations are approximate

N

0 80

APPROXIMATE SCALE IN FEET

Base Map: Aerial Photograph October 2011

PES Environmental, Inc.
Engineering & Environmental Services

Organochlorine Pesticides in Waste Material and Soil
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE 9

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
924.001.02.018	92400102018_CSM_PHOS_9-11	PDG	2/15

SB-EC59			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.00065**	**0.0017**	<0.5
9.5	**0.0009**	<0.33	<0.5
19.5	**0.00064**	<0.33	<0.5
29.5	**0.014**	<0.33	<0.5
39.5	**0.0079**	<0.33	<0.5

WC-06			
ft bgs	BZ	1,4-DCB	4-CBSA
7	**0.0055**	**0.013**	**41,000**

SB-EC-132			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.0012**	<0.0011	**1.4**
4.5	<0.00055	<0.001	<0.015
9.5	**0.0030**	<0.001	<0.015
19.5	**0.0038**	<0.0012	**0.74**

SB-EC-98		
ft bgs	BZ	1,4-DCB
2	**0.0049**	<0.0013
3	**0.0075**	<0.00088U
5	**0.006**	**0.0083**
10	**2.7**	<0.033
15	**4.4**	<0.071
20	**150**	<0.23
25	**62**	<0.073
30	**110**	<0.16
35	**210**	<0.27

WC-07			
ft bgs	BZ	1,4-DCB	4-CBSA
8	**0.22**	<2.5	**270**

SB-EC-100		
ft bgs	BZ	1,4-DCB
2	**0.017**	<0.0009
5	**0.0023**	<0.001
10	**0.61**	<0.00082
15	**0.75**	<0.00078
20	**1.8**	<0.071

SB-EC-88		
ft bgs	BZ	1,4-DCB
2	<0.00045	<0.00084
5	**0.00076**	<0.00076
10	**0.058**	<0.00098
15	**0.13**	<0.00078
19.5	**1**	<0.071

SB-EC-134			
ft bgs	BZ	1,4-DCB	4-CBSA
0	<0.00077	<0.0014	<0.015
4.5	**0.0024**	<0.00089	**0.86**
9.5	**0.019**	<0.00084	**750**
19.5	**0.073**	<0.00081	**5.2**

SB-EC58			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.0041**	<0.33	<0.5
9.5	**2.2**	<0.33	**18**
19.5	**10**	<0.33	**2**
29.5	**8.7**	<0.33	**0.99**
39.5	**21**	<0.33	**1.8**

WC-02			
ft bgs	BZ	1,4-DCB	4-CBSA
5	**0.017**	**0.011J**	<0.5

SB-EC-99		
ft bgs	BZ	1,4-DCB
2	<0.00046	<0.00087
3	<0.00057	**0.0019**
5	**0.002**	**0.0018**
10	**0.014**	**0.0094**
15	**2.4**	**0.17**
19.5	**1.5**	**0.024**
25	**30**	**1.4**
30	**36**	**0.43**
34.5	**27**	**0.2**

WC-01			
ft bgs	BZ	1,4-DCB	4-CBSA
5	**1.9**	**0.41**	**320**

EC-09			
ft bgs	BZ	1,4-DCB	4-CBSA
0	<0.002	<0.33	**21**
7.5	<0.0018	<0.5	**12**
25	<0.0019	<0.33	<0.5
41	<0.0018	<0.33	<0.5

EC-14			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.0012**	<0.33	<0.5
9.5	**0.0012**	<0.33	<0.5
19.5	**0.00085**	<2.5	**51**
29.5	**0.00088**	<2.5	**32**
40.5	**0.00089**	<2.5	**28**

SB-EC-103		
ft bgs	BZ	1,4-DCB
2	**0.0011**	<0.00078
3	**0.0009**	<0.00082
5	<0.00055	<0.001
10	<0.00051	<0.00096
15	<0.00051	<0.00096
20	**0.0049**	<0.00095
25	**0.013**	<0.00093
30	**0.018**	<0.00084
35	**0.024**	**0.0011**

SB-EC-101		
ft bgs	BZ	1,4-DCB
2	<0.00048	<0.00091
5	<0.00042	<0.00079
10	**0.0022**	<0.00082
15	<0.00044	<0.00083
19.5	<0.00042	<0.00079

SB-EC-133			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.00057**	<0.00085	<0.015
7.5	<0.00045	<0.00085	<0.015
12.5	<0.00046	<0.00087	<0.015
19.5	<0.00051	<0.00096	<0.015

WC-05			
ft bgs	BZ	1,4-DCB	4-CBSA
7	**0.053**	**0.41**	**47,000**

SB-EC-89		
ft bgs	BZ	1,4-DCB
1.5	<0.00046	<0.00087
5	<0.00044	<0.00082
10	<0.00047	<0.00088
15	<0.00046	<0.00087
19.5	<0.00045	<0.00085

SB-EC-102		
ft bgs	BZ	1,4-DCB
2	**0.0008**	<0.00083
3	<0.06	<0.06
4.5	<0.00055	<0.001
10	<0.00042	<0.00079
15	**0.00054**	<0.00084
20	<0.00043	<0.00081
24.5	<0.00043	<0.00081
30	<0.00046	<0.00087
35	**0.0006**	<0.00078

SB-EC-104		
ft bgs	BZ	1,4-DCB
2	<0.082	<0.082
3	**0.0022**	**0.0027**
5	<0.074	**0.68**
10	**0.38**	**0.76**
15	**1.2**	**0.69**
20	**0.96**	**0.75**
25	**3.2**	**2.9**
30	**5.1**	**4.8**
34.5	**1.6**	**4.1**

SB-EC-135			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.0011**	**0.012**	<0.015
4.5	<0.034	<0.034	**2.6**
12.5	**0.53**	**1.2**	**16,000**
19.5	<0.00053	<0.00099	**12**

WC-04			
ft bgs	BZ	1,4-DCB	4-CBSA
8	**0.58**	**1.9**	**130,000**

SB-EC57			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.00048**	<0.33	<0.5
9.5	**0.00058**	<0.33	<0.5
19.5	**0.0019**	**0.0015**	<0.5
29.5	**0.01**	**0.0032**	<0.5
39.5	**0.056**	**0.0061**	**62**

SB-EC-105		
ft bgs	BZ	1,4-DCB
2	**0.0021**	**0.0018**
3	**0.0011**	<0.00098
4.5	**0.00059**	**0.0012**
10	**0.66**	**0.8**
14.5	**0.067**	**0.15**
20	**0.057**	**1.1**
25	**0.34**	**0.49**
30	**2.5**	**2.6**
35	**2**	**1.2**

SB-EC-139			
ft bgs		1,4-DCB	4-CBSA
0	**0.0018**	<0.00086	**17**
4.5	**0.00061**	<0.00077	<0.015
9.5	<0.00043	<0.00082	<0.015
19.5	**0.00058**	<0.00082	<0.015

SB-EC-90		
ft bgs	BZ	1,4-DCB
1.5	<0.075	**0.48**
5	**0.0013**	**0.001**
12	**0.0011**	**0.0027**
15	**0.0015**	**0.0045**
19.5	**0.0035**	**0.0045**

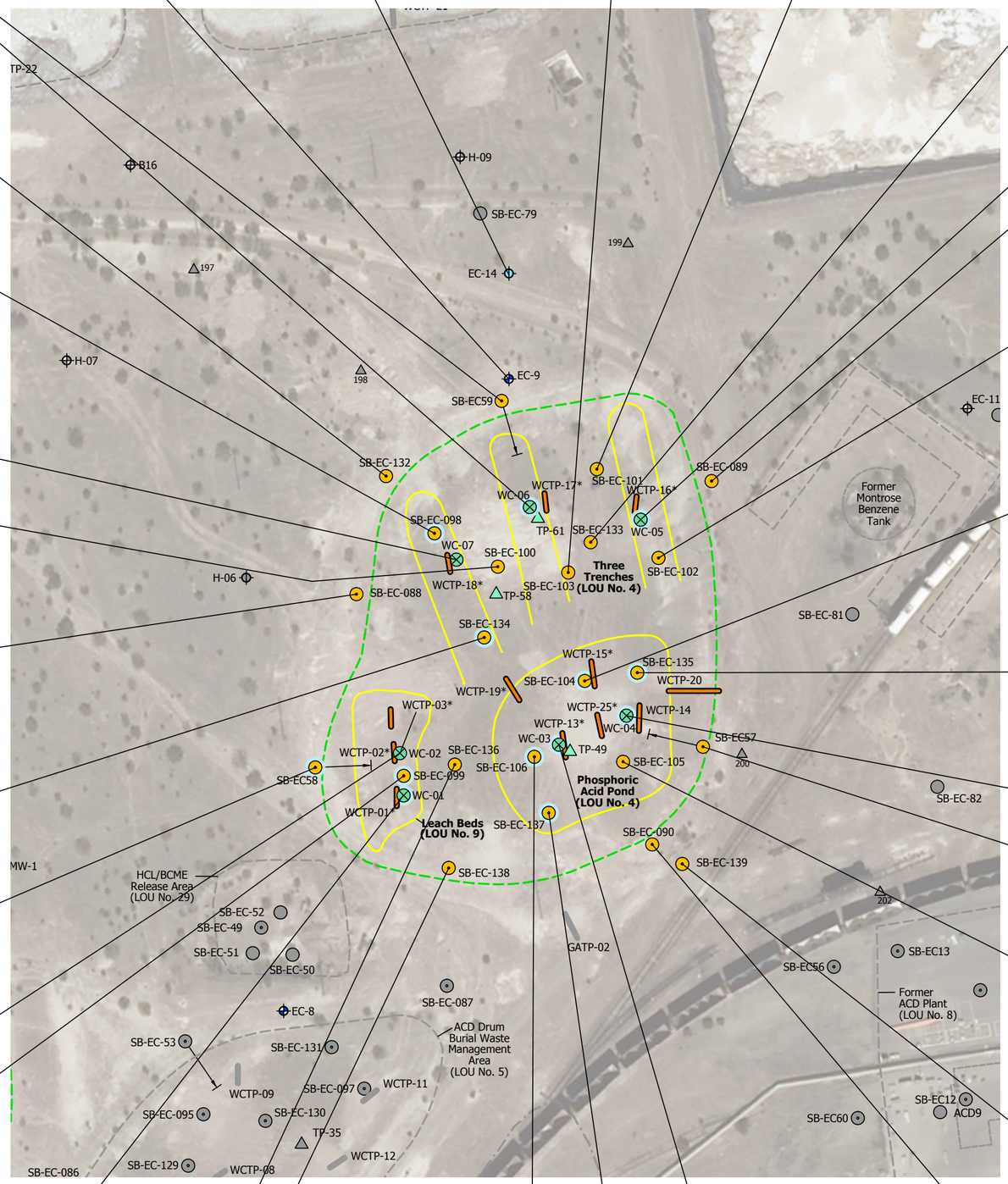
WC-03			
ft bgs	BZ	1,4-DCB	4-CBSA
10	**2.4**	**30**	**1,300**
13	**2.8**	**18**	**3,300**

SB-EC-137			
ft bgs	BZ	1,4-DCB	4-CBSA
0	<0.00055	<0.001	<0.015
4.5	**0.0015**	**0.0010**	**11**
9.5	**0.79**	**3.9**	**1,100**
19.5	**0.010**	**0.0030**	**84**

SB-EC-138			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.00072**	<0.00096	**0.13**
4.5	**0.0014**	**0.018**	**0.66**
9.5	**0.0010**	<0.00077	<0.015
19.5	**0.0045**	<0.00087	**0.13**

SB-EC-106		
ft bgs	BZ	1,4-DCB
2	<0.00051	**0.0017**
5	<0.00045	**0.00096**
10	**9.8**	**23**
15	**22**	**45**
19	**4.9**	**15**

SB-EC-136			
ft bgs	BZ	1,4-DCB	4-CBSA
0	**0.0010**	<0.0011	<0.015
4.5	**0.00048**	<0.00085	<0.015
9.5	<0.00046	<0.00086	<0.015
19.5	**0.0033**	<0.00088	<0.015



EXPLANATION

Sample Locations

- SB-EC-53 — Deep Soil Boring (and projected completion distance for angled boring)
- SB-EC-75 — Shallow Soil Boring
- WC-01 — Waste Characterization Boring
- 200 — Surface Soil Sample ("SS-EC-" ID Prefix)
- TP-62 — Surface Cover Boring
- WCTP-01 — Waste Characterization Exploratory Trench
- EC-9 — Shallow Zone Groundwater Monitoring Well
- EC-14 — Middle Zone Groundwater Monitoring Well
- SB-EC-79 — Location/Feature Outside of Study Area

Analytical Results

- ft bgs — Feet below ground surface (sample start depth)
- **8.7** — Concentration presented in milligrams per kilogram (mg/kg)
- <0.0015 — Chemical not detected at or above respective sample quantitation limit
- Concentration detected at or above respective NDEP BCL (2013) for Outdoor Industrial/Commercial Worker:
  - Benzene (BZ) = 4.50 mg/kg
  - 1,4-Dichlorobenzene (1,4-DCB) = 14.3 mg/kg
  - 4-Chlorobenzenesulfonic Acid (4-CBSA) = 117 mg/kg
- * — Location for visual inspection of waste material and/or sample for HDPE/Chemical compatibility testing (No samples submitted for laboratory chemical analysis)

Site Features

- Stauffer/Pioneer Phase II LOU Study Item
- Approximate Extent of Waste Material

All locations are approximate

N

0 80

APPROXIMATE SCALE IN FEET

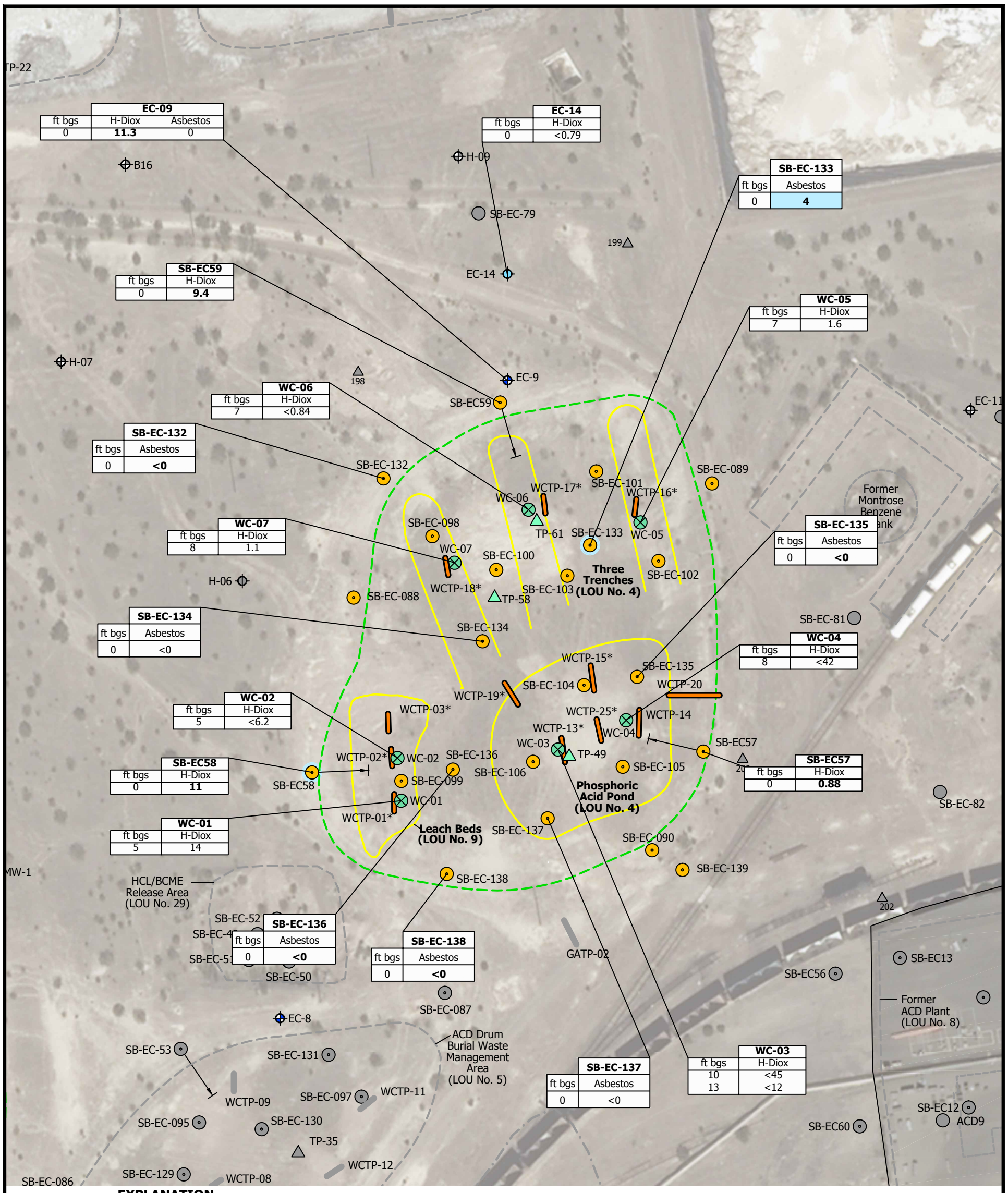
Base Map: Aerial Photograph October 2011

PES Environmental, Inc.
Engineering & Environmental Services

VOCs and 4-CBSA in Waste Material and Soil
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE 10

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
924.001.02.018	92400102018_CSM_PHOS_9-11	PDG	2/15



EXPLANATION

Sample Locations

- SB-EC-53 — Deep Soil Boring (and projected completion distance for angled boring)
- SB-EC-75 — Shallow Soil Boring
- WC-01 — Waste Characterization Boring
- 200 — Surface Soil Sample ("SS-EC-" ID Prefix)
- TP-62 — Surface Cover Boring
- WCTP-01 — Waste Characterization Exploratory Trench
- EC-9 — Shallow Zone Groundwater Monitoring Well
- EC-14 — Middle Zone Groundwater Monitoring Well
- SB-EC-79 — Location/Feature Outside of Study Area

Analytical Results

- ft bgs — Feet below ground surface (sample start depth)
- **5.5** — Dioxin concentration in nanograms per kilogram (ng/kg), and count of total asbestos structures
- <0.0015 — Chemical not detected at or above respective sample quantitation limit
- Concentration detected at or above respective NDEP BCL (2013) for Outdoor Industrial/Commercial Worker:
  123789-Hexachlorinated Dibenzo-P-Dioxin (H-Diox) = 309 ng/kg
  Count of Total Asbestos Structures (Asbestos) via Elutriator = 1
- * — Location for visual inspection of waste material and/or sample for HDPE/Chemical compatibility testing (No samples submitted for laboratory chemical analysis)

Site Features

- Stauffer/Pioneer Phase II LOU Study Item
- Approximate Extent of Waste Material

All locations are approximate

N

0 80
APPROXIMATE SCALE IN FEET

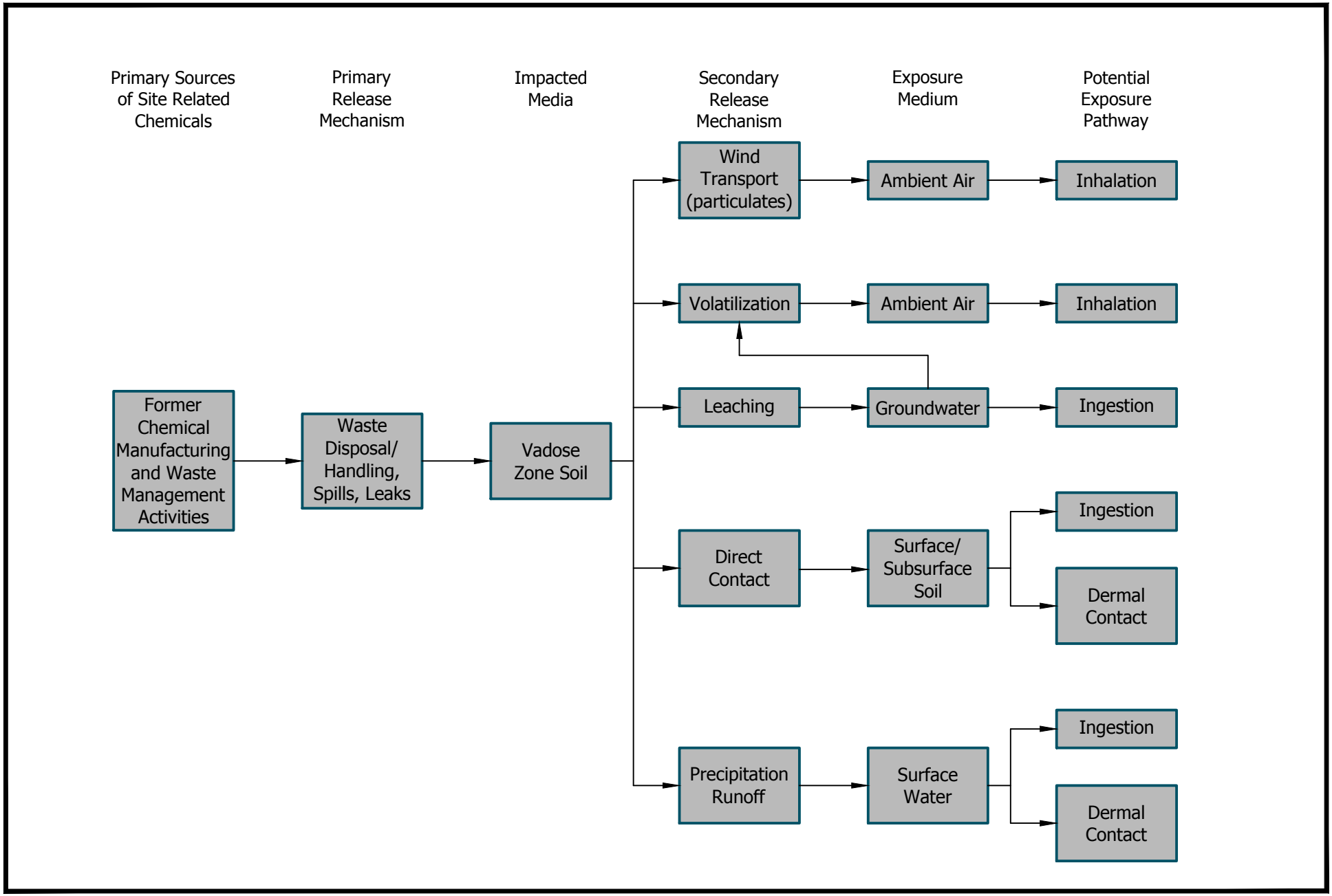
Base Map: Aerial Photograph October 2011

PES Environmental, Inc.
Engineering & Environmental Services

Dioxins and Asbestos in Waste Material and Soil
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE
11

924.001.02.018	92400102018_CSM_PHOS_9-11	PDG	2/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



PES Environmental, Inc.
Engineering & Environmental Services

Conceptual Site Model and Potential Exposure Pathways for Outdoor Commercial/Industrial Worker
Former Stauffer Chemical Company Facility
Henderson, Nevada

PLATE
12

924.001.02.018	92400102018_CSM_PHOS_12	PDG	2/15
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

APPENDIX A

FINAL MEETING MINUTES FROM NOVEMBER 29, 2012 MEETING WITH NDEP AND SMC/SYNGENTA RESPONSES TO NDEP'S SEPTEMBER 28, 2012 COMMENTS

Meeting Minutes

Project:	Olin-Stauffer- Syngenta-Montrose (OSSM)
Location:	NDEP – Las Vegas office and telephone
Time and Date:	8:30 AM, November 29, 2012

In Attendance:

NDEP:	Shannon Harbour
MGA:	Brian Rakvica (for NDEP)
Hackenberry & Assoc.	Paul Hackenberry (for NDEP)
Montrose:	Paul Sundberg (for Montrose)
Syngenta:	George Crouse
PES:	Nick Pogoncheff (for Syngenta)
Olin:	Curt Richards, Jay Gear

1. The purpose of the meeting was to discuss the LOU Area # 4, 5, 8, 9, 10, and 12 Response to Comments (RTC) and review proposed additional characterization.
2. The Companies provided a meeting materials packet consisting of the following:
   a. an agenda
   b. Draft Response to Comments (select comments) to NDEP's September 28, 2012 letter
   c. Preliminary Indicator Chemical Selection Process (USEPA) for SRCs in Soil Table
   d. Comprehensive Summary of SRCs Included for Analysis of soil Samples and Waste Materials Table
   e. Plate 3: Sample Location Map (DRAFT)
   f. Plate 4A-C: Contaminant concentration maps – Former ACD Plant, Former Lindane Plant, Former BHC Cake Piles 1 and 2, and Capped Area of Former BHC Haul Route (DRAFT)
   g. Plate 6: Organochlorine Pesticides in Soil – Former BHC Haul Route Non-Capped Area (DRAFT)
   h. Plates 7A-C: Contaminant concentration maps for Waste Material and Soil BHC Cake Pile 3 (DRAFT)
   i. Plates 9A-C: Contaminant concentration maps for ACD Drum Burial Waste Management Area (DRAFT)
   j. Plates 11A-C: Contaminant concentration maps for Waste Material and Soil Leach Beds, Phosphoric Acid Pond and Three Trenches (DRAFT)
3. The following RTCs were specifically discussed:
   a. RTC7: NDEP and the Companies discussed the applicability of the BCL screening process and agreed that it is appropriate to use BCLs for the screening of soil and groundwater datasets as presented in the Work Plan. Differences between the use of BCLs and the Integral 2010 Risk Assessment Work Plan (RAWP) were also discussed. NDEP concurred that it would not be necessary for the Companies to amend the RAWP nor submit additional documentation prior to applying the NDEP BCL guidance (i.e., as BCLs were developed for use at the BMI Complex and Common Areas, including the Olin Chlor Alkali facility). NDEP further referenced section 3.7 of the BCL Guidance document where 1/10th the BCL may be used for screening process. NDEP stated that COPC selection should not be

conducted using the full value of the BCL since there may be a cumulative effect on risk calculations when multiple contaminants are present.

b. RTC9: NDEP suggested that the DAF language be stricken from the document as arsenic appears to be below background. NDEP additionally noted that a DAF greater than 20 will not be accepted without backup and evidence. At NDEP's suggestion, the Companies would consider submittal of a DAF/LSSL document and obtain approval for a site-specific DAF (or range of DAFs) prior to the use of DAFs in future documents.

c. RTC10: NDEP noted that if the end goals of the characterization of these areas were to identify remediation drivers then the currently proposed analyses may be appropriate; however, if risk assessment is also a goal then the proposed analyses may not be adequate. NDEP and the Companies agreed to discuss the proposed borings on an individual LOU basis later in the meeting.

d. RTC12: Companies acknowledged that quantitative comparisons (e.g., sample box plots) will need to be conducted before NDEP can concur with any conclusions regarding arsenic and background.

e. RTC13: NDEP noted that the lack of fencing, signage, etc. for these areas will be an issue when determining exposure during the development of institutional controls.

f. RTC14: The Companies have noted that site-specific DAF calculations and VLEACH preliminary runs have been completed internally. Additionally the Companies objected to the global nature of the comment across all the presented LOUs as the global comment does not acknowledge the previous scopes of work to characterize both the horizontal and vertical profile of vadose zone conditions. NDEP and the Companies agreed to discuss the proposed borings on an individual LOU basis later in the meeting.

g. RTC15. Problem Statement – The Companies elaborated that the goal of the RAS for these areas is to identify remedial actions appropriate to obtain a "No Further Action" determination from the NDEP with respect to vadose zone soil to a depth of 10 feet. Remedial actions are expected to focus on at least the upper 10 feet of soil to assess whether chemicals represent potential risks under Outdoor Industrial/Commercial Worker Scenario. The Companies expect that institutional controls would be emplaced to restrict access to deeper soils and the use of groundwater at the site. NDEP briefly discussed the complexities that would be involved in establishing adequate institutional controls.

h. RTC15.a, 15.b, and 16.a: NDEP and the Companies agreed to discuss these issues during the individual LOU discussion.

i. RTC16.b: the Companies elaborated upon the term "suitable indicator parameters" as used in the Work Plan. For example as summarized in Appendix A and Table 3, for the suite of five organic acids, only one organic acid, 4-CBSA was detected in soil samples from these areas at concentrations greater than or equal to the respective BCLs for organic acids, and 4-CBSA was never a driver for remediation as other target SRCs (i.e., higher risk) were also detected in these areas. The Companies additionally stated that Appendix A and B (and summarized in Tables 3 and 4, respectively) followed the indicator chemical selection process but was not labeled as such. The detailed backup for all soil and groundwater datasets are also provided in Appendix A and B of the Work Plan. NDEP agreed that the Companies could reduce the analysis for organic acids to 4-CBSA if the laboratory could accommodate. If the laboratory analyzes for the complete suite, then the Companies will need to report all of the data. In addition, this issue would need to be addressed in the Uncertainty Analysis of the risk assessment since it appears that the source areas have been identified and quantified (the

ACD plant and the phosphoric acid ponds). It was also suggested and discussed that dioxin/furan TEQs be checked versus 1/10th of the industrial BCL. In addition, if TEQs are an issue in the future the Tronox site-specific bioaccessibility document should be reviewed as a possible path forward.

j. RTC17: NDEP and the Companies agreed to discuss these issues during the individual LOU discussion.

k. RTC18: NDEP stated that no Environmental Covenant has been established for these areas that could eliminate any risk scenarios. Therefore, in addition to the outdoor worker/commercial worker scenario, the short-term construction worker and indoor worker scenarios would need to be evaluated absent such institutional controls.

l. RTC19.a-e: NDEP and the Companies agreed to discuss these issues during the individual LOU discussion.

m. RTC20: based on review of the SOP, the Companies' response is acceptable.

n. RTC21.a.i-iv: NDEP requested that SVOCs be analyzed due to soil sampling conducted by Tronox at the adjacent Nevada Environmental Response Trust (NERT) site. NDEP noted that sludge was reportedly used in the construction of the shoulders of the BHC Cake Pile 3. NDEP and the Companies agreed to discuss specific analytical suites during the individual LOU discussion.

o. RTC21.b: the Companies stated that in a previous meeting with NDEP (January 8, 2009 meeting and same Meeting Minutes and December 9, 2008 letter from NDEP re: *Revised Scope of Work Area-Specific Conceptual Site Models*) that NDEP stated that the physical properties should not be collected in biased soil sampling locations in areas with potentially contaminated concentrations. Additionally, the Companies stated that in this meeting, NDEP and the Companies agreed upon the location for completion of a "Physical Properties Profile Boring" to get representative samples that would be decided by consensus of the group. NDEP stated that the data collected from the previously collected samples (aforementioned location and others) are acceptable and appear to be adequate in quantity (~49 samples).

p. RTC24: NDEP requested that the more recent field verification of the cap dimensions be included.

4. Individual LOUs were discussed as follows:

   a. ACD Drum Burial Area (LOU 5): the Companies provided summary of previous site use and investigation history. After review and discussion of characterization data to date (Plates 9A-C of packet), NDEP and the Companies agreed to the following:

      i. 4 additional soil borings as shown on Plate 3 advanced to 20 feet bgs.

      ii. Analyze samples for OCPs, VOCs, and surface asbestos.

   b. Leach Beds (LOU 9) and Phosphoric Acid Pond and Three Trenches (LOU 4): the Companies provided summary of previous use and investigative history. After review and discussion of date to date (Plates 11A-C), NDEP and the Companies agreed to the following:

      i. 8 additional soil borings as shown on Plate 3 advanced to 20 feet bgs.

      ii. Analyze samples for VOCs, OCPs, 4-CBSA, and surface asbestos.

      iii. Companies to provide rationale to NDEP for approval of not analyzing samples for magnesium.

      iv. It was noted that there is a TEQ detection in this area greater than 1/10th the BCL.

c. Former ACD Plant (LOU 8), Former Lindane Plant and Former BHC Warehouse (LOU 10), and Former BHC Cake Piles 1 and 2 and Asphalt Capped Area of BHC Haul Route (LOU 12): the Companies provided summary of previous use and investigative history of these areas. After review and discussion of the data to date (Plates 4A-C), NDEP and the Companies agreed to the following:

   i. 5 additional soil borings advanced to 20 feet below ground surface at the following locations shown on Plate 3:

      1. Northern portion of Former ACD Plant between surface soil sampling locations ACD13, ACD14, ACD18, and ACD19.
      2. West of Former BHC Cake Pile 2, north of surface soil sampling location 148.
      3. South of Former BHC Cake Pile 2, outside asphalt capped area, and between shallow boring locations SB-EC-67 and SB-EC-21.
      4. West of Former Lindane Plant, between shallow soil boring locations FLP6 and SB-EC-02.
      5. South of Former BHC Warehouse, outside asphalt capped area, and between surface soil sample locations 051 and 180.

      ii. It was noted that the maximum TEQ detection is located in this area and it is less than the BCL but greater that 1/10th the BCL.

   iii. 5 additional soil borings advanced to the water table at the following locations shown on Plate 3:

      1. Southern portion of Former ACD Plant just southwest of surface soil sample location ACD4.
      2. West side of Former BHC Cake Pile 2.
      3. West side of Former BHC Cake Pile 1 near surface soil sampling location BCP13.
      4. East of Former BHC Cake Pile 1, outside asphalt capped area, near surface soil sample locations BHCLR1 and 066.
      5. Between Former ACD Plant and Former BHC Cake Pile 1 and east of surface soil sample location BHCLR3.

   iv. Analyze samples for OCPs, VOCs, and surface asbestos.

   v. NDEP stated that based on the concentrations and locations of current sampling results, dioxins/furans and 4-CBSA did not appear to need additional analysis for this area.

d. Former BHC Haul Route (LOU 12): the Companies provided summary of the investigative history of this area. After review and discussion of the data to date (Plate 6), NDEP and the Companies decided that the Companies will propose additional and/or modified sampling locations to determine the vertical and horizontal extent of OCPs impacts. Samples will be collected at the surface, 2 ft bgs, and 5 ft bgs, as needed. The deeper samples may be held for analysis pending the results of the shallower samples. The Companies will additionally analyze for surface asbestos.

e. BHC Cake Pile #3, it was discussed and requested by NDEP that surface asbestos samples be collected. It was noted that the USEPA default 0.5 acre exposure area could be used as a starting point for the basis of determining the number of samples.

APPENDIX B

TABLES B-1 AND B-2
SUMMARY OF LABORATORY ANALYTICAL RESULTS
FOR SOIL AND GROUNDWATER MEDIA

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	CAS	BCL[1]	1/10*BCL	No. Samples	No. Detcts.	Freq. Detct.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	No. ≥1/10*BCL	Min. ND SQL	Max ND SQL	No. NDs ≥BCL				
																			Location ID	EC-09	EC-09	EC-09
																			Sample ID	SB-EC9-0.0	SB-EC9-7.5	SB-EC9-25.0
																			Depth (ft)	0-0.5	7.5-8	25-25.5
																			Date	8/10/2006	8/10/2006	8/10/2006
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg	75-07-0	77.7	7.77	4	0	0%	--	--	--	--	0	0%	0	0.072	0.072	0	<0.5U	<0.5U	<0.5U	<0.5U
	CHLOROACETALDEHYDE	mg/kg	107-20-0	ne	ne	4	1	25%	0.15	0.150	0.15	0.15	--	--	--	0.120	0.120	--	<1	0.15	<1	<1
	FORMALDEHYDE	mg/kg	50-00-0	66,980	6,698	4	2	50%	0.63	0.670	0.67	0.71	0	0%	0	0.520	0.520	0	0.63	<1	<1	0.71
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT	12172-73-5L	ne	ne	8	0	0%	--	--	--	--	--	--	--	0.000	0.000	--	<0			
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT	1332-21-4L	ne	ne	8	1	13%	2	2.0	2	2	--	--	--	0.000	0.000	--	<0			
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT	12001-29-5L	ne	ne	8	1	13%	2	2.0	2	2	--	--	--	0.000	0.000	--	<0			
	SHORT AMPHIBOLE STRUCTURES	COUNT	12172-73-5S	ne	ne	7	1	14%	1	1.0	1	1	--	--	--	0.000	0.000	--				
	SHORT ASBESTOS STRUCTURES	COUNT	1332-21-4S	ne	ne	7	1	14%	2	2.0	2	2	--	--	--	0.000	0.000	--				
	SHORT CHRYSOTILE STRUCTURES	COUNT	12001-29-5S	ne	ne	7	1	14%	1	1.0	1	1	--	--	--	0.000	0.000	--				
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT	12172-73-5T	ne	ne	8	1	13%	1	1.0	1	1	--	--	--	0.000	0.000	--	<0			
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT	1332-21-4T	1	1	8	1	13%	4	4.0	4	4	1	13%	1	0.000	0.000	0	<0			
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT	12001-29-5T	ne	ne	8	1	13%	3	3.0	3	3	--	--	--	0.000	0.000	--	<0			
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	35822-46-9	ne	ne	13	13	100%	8.6	124.0	16	1000	--	--	--	0.000	0.000	--	51.8			
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg	67562-39-4	ne	ne	13	12	92%	5.2	186.4	25.5	1600	--	--	--	91	91	--	<91			
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg	55673-89-7	ne	ne	13	11	85%	1.7	41.1	15	200	--	--	--	1.900	6.500	--	39.3			
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg	70648-26-9	ne	ne	13	13	100%	1.7	45.3	26	140	--	--	--	0.000	0.000	--	129			
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	39227-28-6	ne	ne	13	6	46%	0.24	2.1	1.55	4.5	--	--	--	0.950	13	--	4.5			
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg	57117-44-9	ne	ne	13	10	77%	2.5	40.1	17.5	130	--	--	--	0.630	5.600	--	51.8			
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	57653-85-7	ne	ne	13	7	54%	1	12.0	9.3	31	--	--	--	2.200	28	--	26.5			
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg	72918-21-9	ne	ne	13	7	54%	0.38	15.9	2.7	88	--	--	--	0.740	14	--	6.2			
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	19408-74-3	309	30.9	13	7	54%	0.88	7.0	9.4	14	0	0%	0	0.790	45	6	11.3			
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg	57117-41-6	ne	ne	13	11	85%	1.2	44.0	22	250	--	--	--	5.200	7.000	--	89			
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	40321-76-4	ne	ne	13	2	15%	2.3	2.7	2.7	3.1	--	--	--	0.300	410	--	<16			
	2,3,7,8-TCDD	ng/kg	1746-01-6	1,000	100	13	3	23%	0.63	22.8	0.75	67	0	0%	0	0.180	940	10	<11			
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg	TEQ	1,000	100	13	13	100%	1.20	37.2	17.2	138.1	0	0%	1	--	--	--	99.97			
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg	60851-34-5	ne	ne	13	11	85%	1.2	34.5	10	190	--	--	--	0.660	6.000	--	14.9			
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg	57117-31-4	ne	ne	13	9	69%	0.81	18.2	11	62	--	--	--	1.600	7.400	--	62			
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg	51207-31-9	ne	ne	13	12	92%	4.7	112.8	22.5	560	--	--	--	5.500	5.500	--	533			
	HEPTACHLORINATED DIBENZOFURAN	ng/kg	38998-75-3	ne	ne	13	13	100%	13	385.3	65	3100	--	--	--	0.000	0.000	--	128			
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	37871-00-4	ne	ne	13	13	100%	9.3	244.6	29	2000	--	--	--	0.000	0.000	--	94.8			
	HEXACHLORINATED DIBENZOFURAN	ng/kg	55684-94-1	ne	ne	13	13	100%	5.3	354.2	140	1600	--	--	--	0.000	0.000	--	804			
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	34465-46-8	ne	ne	13	10	77%	7.8	80.3	52	345	--	--	--	6.400	150	--	345			
	OCTACHLORINATED DIBENZOFURAN	ng/kg	39001-02-0	ne	ne	13	13	100%	12	433.2	64	4500	--	--	--	0.000	0.000	--	158			
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	3268-87-9	ne	ne	13	13	100%	16	901.0	62	8400	--	--	--	0.000	0.000	--	79.4			
	PENTACHLORINATED DIBENZOFURAN	ng/kg	30402-15-4	ne	ne	13	13	100%	14	329.6	100	2490	--	--	--	0.000	0.000	--	2490			
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	36088-22-9	ne	ne	13	9	69%	2.2	241.2	27	1800	--	--	--	15	410	--	110			
	TETRACHLORINATED DIBENZOFURAN	ng/kg	55722-27-5	ne	ne	13	13	100%	25	531.6	160	3810	--	--	--	0.000	0.000	--	3810			
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg	41903-57-5	ne	ne	13	11	85%	2	11931.8	1600	65000	--	--	--	11000	17000	--	29			
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g	CEC	ne	ne	7	7	100%	3.7	12.1	14	16	--	--	--	0.000	0.000	--				
	Fraction organic Carbon	g/g	FOC	ne	ne	7	7	100%	0.0014	0.034	0.0073	0.147	--	--	--	0.000	0.000	--				
	Percent Moisture	%	MOISTURE	ne	ne	12	12	100%	2.7	10.2	8.35	21.8	--	--	--	0.000	0.000	--				
	PH	pH Units	pH	ne	ne	7	7	100%	1.49	4.6	2.75	8.33	--	--	--	--	--	--				
	TOTAL ORGANIC CARBON	mg/kg	10-35-5	ne	ne	7	7	100%	1400	33814.3	7250	146700	--	--	--	0.000	0.000	--				
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg	PHCC8C24	ne	ne	4	3	75%	3.5	14.8	14	27	--	--	--	2.500	2.500	--	27	14	<5	3.5
	EFH (C8 - C40)	mg/kg	PHCC8C40	ne	ne	4	3	75%	3.6	16.5	16	30	--	--	--	2.500	2.500	--	30	16	<5	3.6
	ETHANOL	mg/kg	64-17-5	100,000	10,000	4	0	0%	--	--	--	--	0	0%	0	0.320	0.320	0	<1	<1	<1	<1
	METHANOL	mg/kg	67-56-1	100,000	10,000	4	0	0%	--	--	--	--	0	0%	0	0.120	0.120	0	<1	<1	<1	<1
	ORO (C25-C40)	mg/kg	PHCC25C40	ne	ne	4	1	25%	3.6	3.6	3.6	3.6	--	--	--	2.500	2.500	--	3.6	<5	<5	<5
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg	GROC6C12	ne	ne	4	1	25%	0.34	0.340	0.34	0.34	--	--	--	0.140	0.150	--	<0.4	<0.39	<0.38	0.34
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg	7664-41-7	100,000	10,000	4	0	0%	--	--	--	--	0	0%	0	0.700	0.700	0	<5UJ	<5UJ	<5UJ	<5UJ
	CHLORIDE	mg/kg	16887-00-6	ne	ne	32	31	97%	3.1	636.9	550	2300	--	--	--	2.500	2.500	--	200	260	570	210
	CYANIDE	mg/kg	57-12-5	29.3	2.93	32	0	0%	--	--	--	--	0	0%	0	0.420	0.430	0	<0.5	<0.5	<0.5	<0.5
	FLUORIDE	mg/kg	16984-48-8	41,044	4,104	5	5	100%	2.4	3.5	3.9	4.5	0	0%	0	0.000	0.000	--				
	IODIDE	mg/kg	IODIDE	ne	ne	4	4	100%	0.24	6.4	5.625	14	--	--	--	0.000	0.000	--	11	14	0.25	0.24
	NITRATE (AS N)	mg/kg	14797-55-8	100,000	10,000	32	12	38%	0.64	2.4	1.7	5.6	0	0%	0	0.600	30	0	4.8	4.0	<1.1	<1.1
	PH	pH Units	pH	ne	ne	32	32	100%	1.67	7.4	8.03	9.87	--	--	--	0.000	0.000	--	7.70	7.27	7.92	9.06
	PHOSPHATE	mg/kg	14265-44-2	ne	ne	28	28	100%	1100	86317.9	2050	600000	--	--	--	0.000	0.000	--				
	PHOSPHORUS, TOTAL (AS P)	mg/kg	14596-37-3	ne	ne	4	4	100%	800	4897.5	3395	12000	--	--	--	0.000	0.000	--	5900	12000	890	800
	SULFATE	mg/kg	14808-79-8	ne	ne	32	32	100%	7.2	1044.9	590	7500	--	--	--	0.000	0.000	--	2800	1100	340	330
	TOTAL CARBON	mg/kg	7440-44-0	ne	ne	4	4	100%	5930	7267.5	6760	9620	--	--	--	0.000	0.000	--	6350	9620	7170	5930
	TOTAL INORGANIC CARBON	mg/kg	TOTIC	ne	ne	4	4	100%	5340	6877.5	6550	9070	--	--	--	0.000	0.000	--	5340	9070	7170	5930
	TOTAL ORGANIC CARBON	mg/Kg	10-35-5	ne	ne	4	2	50%	550	780.0	780	1010	--	--	--	501	501	--	1010	550	<1000	<1000

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	CAS	BCL[1]	1/10*BCL	No. Samples	No. Detcts.	Freq. Detct.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	No. ≥1/10*BCL	Min. ND SQL	Max ND SQL	No. NDs ≥BCL				
																			Location ID	EC-09	EC-09	EC-09
																			Sample ID	SB-EC9-0.0	SB-EC9-7.5	SB-EC9-25.0
																			Depth (ft)	0-0.5	7.5-8	25-25.5
																			Date	8/10/2006	8/10/2006	8/10/2006
METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg	7429-90-5	100,000	10,000	58	57	98%	200	7871.9	8200	16000	0	0%	11	300	300	0	7800	7700	6800	4800
	ANTIMONY	mg/kg	7440-36-0	454	45.4	58	21	36%	0	0.597	0	31	0	0%	0	0.014	0.100	0	<1UJ	<1UJ	<1UJ	<1UJ
	ARSENIC	mg/kg	7440-38-2	1.77	0.177	124	119	96%	0	3.0	3.0	7.6	112	90%	119	0.350	0.350	0	4.3	2.1	4.3	3.2
	BARIUM	mg/kg	7440-39-3	100,000	10,000	58	58	100%	6.8	126.3	140	240	0	0%	0	0.000	0.000	--	120J-	120J-	120J-	110J-
	BERYLLIUM	mg/kg	7440-41-7	2,228	223	58	51	88%	0	0.382	0.43	0.92	0	0%	0	0.100	0.100	0	0.40	0.33	0.38	0.27
	BORON	mg/kg	7440-42-8	100,000	10,000	6	4	67%	0	4.5	5.15	8.5	0	0%	0	2.100	4.200	0	8.5	4.1	8.0	6.2
	CADMIUM	mg/kg	7440-43-9	1,114	111	58	36	62%	0	0.143	0.07	0.61	0	0%	0	0.060	0.060	0	0.072	0.054	0.041	0.029
	CALCIUM	mg/kg	7440-70-2	ne	ne	40	40	100%	14000	29200.0	26000	110000	--	--	--	0.000	0.000	--	31000J	24000J	34000J	16000J
	CHROMIUM	mg/kg	7440-47-3	ne	ne	58	53	91%	0	12.3	11	93	--	--	--	0.350	0.350	--	7.8	7.1	8.3	4.5
	COBALT	mg/kg	7440-48-4	337	33.7	58	57	98%	0	4.4	4.65	8.3	0	0%	0	0.080	0.080	0	5.0	3.8	4.6	3.1
	COPPER	mg/kg	7440-50-8	42,178	4,218	58	56	97%	0	10.3	11	25	0	0%	0	0.380	0.380	0	12	8.8	11	9.0
	HEXAVALENT CHROMIUM	mg/kg	18540-29-9	1,363	136	32	5	16%	0	0.00863	0	0.1	0	0%	0	0.020	0.030	0	0.10	0.065	<0.2	<0.2
	IRON	mg/kg	7439-89-6	100,000	10,000	40	40	100%	490	13457.3	14000	36000	0	0%	29	0.000	0.000	--	9600	9400	10000	7000
	LEAD	mg/kg	7439-92-1	800	80.0	58	58	100%	0.23	6.0	5.5	25	0	0%	0	0.000	0.000	--	8.3	6.2	5.1	4.4
	MAGNESIUM	mg/kg	7439-95-4	100,000	10,000	40	40	100%	4200	13530.0	8000	170000	1	3%	9	0.000	0.000	--	8900	6600	7900	4500
	MANGANESE	mg/kg	7439-96-5	24,927	2,493	58	58	100%	2.3	213.1	205	620	0	0%	0	0.000	0.000	--	300	230	200	150
	MERCURY	mg/kg	7439-97-6	182	18.2	34	2	6%	0	0.00232	0	0.058	0	0%	0	0.008	0.012	0	<0.02	0.021	<0.02	<0.02
	MOLYBDENUM	mg/kg	7439-98-7	5,678	568	20	20	100%	0.18	0.840	0.51	2.3	0	0%	0	0.000	0.000	--				
	NICKEL	mg/kg	7440-02-0	21,770	2,177	58	58	100%	0.6	11.2	12	32	0	0%	0	0.000	0.000	--	14J-	8.9J-	11J-	6.0J-
	PHOSPHORUS (WHITE)	mg/kg	7723-14-0	ne	ne	6	6	100%	150	466.7	475	750	--	--	--	0.000	0.000	--				
	PHOSPHORUS, TOTAL (AS P)	mg/kg	14596-37-3	ne	ne	29	29	100%	240	17476.2	1200	120000	--	--	--	0.000	0.000	--	9600	9600	650	690
	POTASSIUM	mg/kg	7440-09-7	ne	ne	38	38	100%	1400	3281.6	3100	6600	--	--	--	0.000	0.000	--	3100	2800	2600	1700
	Potassium	mg/kg	9/7/7440	ne	ne	2	2	100%	170	1085.0	1085	2000	--	--	--	0.000	0.000	--				
	SELENIUM	mg/kg	7782-49-2	5,678	568	58	25	43%	0	0.371	0	6.8	0	0%	0	0.130	0.200	0	0.21	<1	<1	<1
	SILVER	mg/kg	7440-22-4	5,678	568	58	29	50%	0	0.069	0.010	0.95	0	0%	0	0.020	0.150	0	0.084J-	0.064J-	0.11J-	0.11J-
	SODIUM	mg/kg	7440-23-5	ne	ne	40	40	100%	260	2681.3	1250	14000	--	--	--	0.000	0.000	--	1200	720	540	1200
	THALLIUM	mg/kg	7440-28-0	74.9	7.49	58	41	71%	0	0.091	0.096	0.25	0	0%	0	0.100	0.100	0	<0.5U	<0.5U	<0.5	<0.5
	TIN	mg/kg	7440-31-5	100,000	10,000	40	5	13%	0	1.1	0	38	0	0%	0	0.400	2.600	0	<10U	<10U	<10U	<10U
	TITANIUM	mg/kg	7440-32-6	100,000	10,000	40	40	100%	21	778.3	725	1800	0	0%	0	0.000	0.000	--	420	500	580	470
	URANIUM	mg/kg	7440-61-1	3,400	340	18	18	100%	0.11	0.804	0.825	1.6	0	0%	0	0.000	0.000	--				
	VANADIUM	mg/kg	7440-62-2	5,678	568	58	57	98%	0	28.3	28.5	81	0	0%	0	0.350	0.350	0	23	21	31	23
	ZINC	mg/kg	7440-66-6	100,000	10,000	58	52	90%	0	21.3	23.5	37	0	0%	0	1.300	1.300	0	23J-	18J-	20J-	15J-
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg	53-19-0	ne	ne	147	7	5%	0	0.024	0	3.2	--	--	--	0.002	11	--	0.016	<0.025	<0.025	<0.05
	2,4'-DDE	mg/kg	3424-82-6	ne	ne	147	32	22%	0	0.171	0	16	--	--	--	0.001	5.600	--	0.09	<0.025	<0.025	<0.05
	2,4'-DDT	mg/kg	789-02-6	ne	ne	35	4	11%	0	0.026	0	0.86	--	--	--	0.002	5.600	--	0.041	<0.025	<0.025	<0.05
	4,4'-DDD	mg/kg	72-54-8	11.1	1.11	153	10	7%	0	0.010	0	0.67	0	0%	0	0.002	11	0	<0.025	<0.025	<0.025	<0.05
	4,4'-DDE	mg/kg	72-55-9	7.81	0.781	153	22	14%	0	0.054	0	2.7	0	0%	4	0.002	11	1	0.19	<0.025	<0.025	<0.05
	4,4'-DDT	mg/kg	50-29-3	7.81	0.781	153	35	23%	0	79.4	0	3300	14	9%	21	0.002	11	1	<0.025	<0.025	<0.025	<0.05
	ALDRIN	mg/kg	309-00-2	0.113	0.0113	153	0	0%	--	--	--	--	0	0%	0	0.002	11	12	<0.025	<0.025	<0.025	<0.05
	ALPHA-BHC	mg/kg	319-84-6	270	27.0	154	123	80%	0	666.6	0.15	80000	13	8%	25	0.002	0.500	0	0.29	0.28	<0.025	<0.05
	BETA-BHC	mg/kg	319-85-7	53.9	5.39	154	125	81%	0	22.8	0.45	830	14	9%	32	0.002	0.045	0	15	3	<0.025	<0.05
	CHLORDANE	mg/kg	57-74-9	7.19	0.719	154	0	0%	--	--	--	--	0	0%	0	0.010	75	3	<0.25	<0.25	<0.25	<0.5
	DELTA-BHC	mg/kg	319-86-8	270	27.0	153	38	25%	0	4.4	0	350	1	1%	4	0.002	1.000	0	<0.05	<0.05	<0.05	<0.1
	DIELDRIN	mg/kg	60-57-1	0.120	0.0120	153	0	0%	--	--	--	--	0	0%	0	0.002	11	12	<0.025	<0.025	<0.025	<0.05
	ENDOSULFAN I	mg/kg	959-98-8	ne	ne	153	0	0%	--	--	--	--	--	--	--	0.002	11	--	<0.025	<0.025	<0.025	<0.05
	ENDOSULFAN II	mg/kg	33213-65-9	ne	ne	153	0	0%	--	--	--	--	--	--	--	0.002	11	--	<0.025	<0.025	<0.025	<0.05
	ENDOSULFAN SULFATE	mg/kg	1031-07-8	ne	ne	153	0	0%	--	--	--	--	--	--	--	0.002	15	--	<0.05	<0.05	<0.05	<0.1
	ENDRIN	mg/kg	72-20-8	205	20.5	153	0	0%	--	--	--	--	0	0%	0	0.002	11	0	<0.025	<0.025	<0.025	<0.05
	ENDRIN ALDEHYDE	mg/kg	7421-93-4	ne	ne	153	0	0%	--	--	--	--	--	--	--	0.002	11	--	<0.025	<0.025	<0.025	<0.05
	ENDRIN KETONE	mg/kg	53494-70-5	ne	ne	153	2	1%	0	6.2745E-05	0	0.0072	--	--	--	0.002	15	--	<0.025	<0.025	<0.025	<0.05
	GAMMA-BHC (LINDANE)	mg/kg	58-89-9	8.98	0.898	153	65	42%	0	20.6	0	1900	11	7%	18	0.002	0.760	0	0.014	0.014	<0.025	<0.05
	HEPTACHLOR	mg/kg	76-44-8	0.426	0.0426	153	0	0%	--	--	--	--	0	0%	0	0.002	15	7	<0.025	<0.025	<0.025	<0.05
	HEPTACHLOR EPOXIDE	mg/kg	1024-57-3	0.210	0.0210	153	0	0%	--	--	--	--	0	0%	0	0.002	15	9	<0.025	<0.025	<0.025	<0.05
	METHOXYCHLOR	mg/kg	72-43-5	3,420	342	153	1	1%	0	0.00111	0	0.17	0	0%	0	0.002	11	0	<0.025	<0.025	<0.025	<0.05
	TOXAPHENE	mg/kg	8001-35-2	1.74	0.174	152	0	0%	--	--	--	--	0	0%	0	0.050	380	37	<1	<1	<1	<2

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	CAS	BCL[1]	1/10*BCL	No. Samples	No. Detcts.	Freq. Detct.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	No. ≥1/10*BCL	Min. ND SQL	Max ND SQL	No. NDs ≥BCL				
																		Location ID	EC-09	EC-09	EC-09	EC-09
																		Sample ID	SB-EC9-0.0	SB-EC9-7.5	SB-EC9-25.0	SB-EC9-41.0
																		Depth (ft)	0-0.5	7.5-8	25-25.5	41-41.5
																		Date	8/10/2006	8/10/2006	8/10/2006	8/10/2006
OP PEST [EPA 8141A]	AZINPHOS-METHYL	mg/kg	86-50-0	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	350	--	<0.04	<0.04	<0.04	<0.04
	BOLSTAR	mg/kg	35400-43-2	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	420	--	<0.02	<0.02	<0.02	<0.02
	CARBOPHENOTHION (TRITHION)	mg/kg	786-19-6	ne	ne	32	8	25%	0	328.6	0	9900	--	--	--	0.002	0.041	--	<0.02	<0.02	<0.02	<0.02
	CHLORPYRIFOS	mg/kg	2921-88-2	2,052	205	32	0	0%	--	--	--	--	0	0%	0	0.003	650	0	<0.02	<0.02	<0.02	<0.02
	COUMAPHOS	mg/kg	56-72-4	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.003	280	--	<0.04	<0.04	<0.04	<0.04
	DEMETON	mg/kg	8065-48-3	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.008	750	--	<0.02UJ	<0.02UJ	<0.02	<0.02UJ
	DEMETON-O	mg/kg	298-03-3	ne	ne	28	0	0%	--	--	--	--	--	--	--	0.005	530	--				
	DIAZINON	mg/kg	333-41-5	616	61.6	32	0	0%	--	--	--	--	0	0%	0	0.006	730	1	<0.02	<0.02	<0.02	<0.02
	DICHLORVOS	mg/kg	62-73-7	6.60	0.660	32	0	0%	--	--	--	--	0	0%	0	0.006	740	4	<0.02	<0.02	<0.02	<0.02
	DIMETHOATE	mg/kg	60-51-5	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.005	710	--	<0.04	<0.04	<0.04	<0.04
	DISULFOTON	mg/kg	298-04-4	27.4	2.74	32	0	0%	--	--	--	--	0	0%	0	0.004	770	1	<0.02	<0.02	<0.02	<0.02
	EPN	mg/kg	2104-64-5	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	370	--	<0.02	<0.02	<0.02	<0.02
	ETHION	mg/kg	563-12-2	342	34.2	4	0	0%	--	--	--	--	0	0%	0	0.004	0.004	0	<0.02	<0.02	<0.02	<0.02UJ
	ETHOPROP	mg/kg	13194-48-4	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.005	490	--	<0.02	<0.02	<0.02	<0.02
	ETHYL PARATHION	mg/kg	56-38-2	4,104	410	32	0	0%	--	--	--	--	0	0%	0	0.004	530	0	<0.02UJ	<0.02UJ	<0.02	<0.02UJ
	FAMPHUR	mg/kg	52-85-7	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.003	320	--	<0.04	<0.04	<0.04	<0.04
	FENSULFOTHION	mg/kg	115-90-2	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.006	820	--	<0.02	<0.02UJ	<0.02	<0.02UJ
	FENTHION	mg/kg	55-38-9	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	870	--	<0.02	<0.02	<0.02	<0.02
	MALATHION	mg/kg	121-75-5	13,681	1,368	32	0	0%	--	--	--	--	0	0%	0	0.004	460	0	<0.02	<0.02	<0.02	<0.02
	MERPHOS	mg/kg	150-50-5	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	510	--	<0.02	<0.02	<0.02	<0.02
	METHYL CARBOPHENOTHION	mg/kg	953-17-3	ne	ne	32	1	3%	0	0.00106	0	0.034	--	--	--	0.002	240	--	<0.02	<0.02	<0.02	<0.02
	METHYL PARATHION	mg/kg	298-00-0	171	17.1	32	0	0%	--	--	--	--	0	0%	0	0.005	640	1	<0.02UJ	<0.02UJ	<0.02	<0.02UJ
	MEVINPHOS	mg/kg	7786-34-7	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.005	460	--	<0.02	<0.02	<0.02	<0.02
	NALED	mg/kg	300-76-5	1,368	137	32	0	0%	--	--	--	--	0	0%	0	0.010	2300	1	<0.04UJ	<0.04UJ	<0.04UJ	<0.04UJ
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg	126-68-1	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	780	--	<0.02	<0.02	<0.02	<0.02
	PHORATE	mg/kg	298-02-2	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	570	--	<0.02	<0.02	<0.02	<0.02
	PHOSMET	mg/kg	732-11-6	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.016	1900	--	<0.04UJ	<0.04UJ	<0.04UJ	<0.04UJ
	RONNEL	mg/kg	299-84-3	34,203	3,420	32	0	0%	--	--	--	--	0	0%	0	0.008	1500	0	<0.02	<0.02	<0.02	<0.02
	STIROPHOS	mg/kg	961-11-5	79.8	7.98	28	0	0%	--	--	--	--	0	0%	0	0.004	440	1				
	SULFOTEPP	mg/kg	3689-24-5	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.003	630	--	<0.02	<0.02	<0.02	<0.02
	TETRACHLORVINPHOS	mg/kg	22248-79-9	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.005	0.005	--	<0.04UJ	<0.04UJ	<0.04	<0.04UJ
	THIONAZIN	mg/kg	297-97-2	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.003	560	--	<0.02UJ	<0.02UJ	<0.02	<0.02UJ
	TOKUTHION	mg/kg	34643-46-4	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.004	390	--	<0.02UJ	<0.02UJ	<0.02	<0.02UJ
	TRICHLORNATE	mg/kg	327-98-0	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.003	620	--	<0.02	<0.02	<0.02	<0.02
ORGACIDS [HPLC]	4-CHLOROBENZENESULFONIC ACID	mg/Kg	98-66-8	117	11.7	64	32	50%	0	3771.9	0.065	130000	10	16%	20	0.500	15	0	21J+	12	<0.5	<0.5
	BENZENESULFONIC ACID	mg/Kg	98-11-3	100,000	10,000	32	6	19%	0	1.2	0	17	0	0%	0	0.500	5000	0	<0.5	<0.5	<0.5	<0.5
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg	298-06-6	90,844	9,084	32	7	22%	0	4.1	0	63	0	0%	0	0.500	5000	0	1.7	1.1	<0.5	<0.5
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg	756-80-9	100,000	10,000	32	6	19%	0	12.7	0	150	0	0%	0	2.500	13000	0	6.1	5.8	<2.5	<2.5
	PHTHALIC ACID	mg/Kg	88-99-3	100,000	10,000	32	8	25%	0	38.0	0	650	0	0%	0	0.500	5000	0	2.4	1.7	<0.5	<0.5
PCB [EPA 8082]	AROCLOR-1016	mg/kg	12674-11-2	23.6	2.36	29	0	0%	--	--	--	--	0	0%	0	0.007	500	1	<0.05			
	AROCLOR-1221	mg/kg	11104-28-2	0.826	0.0826	29	0	0%	--	--	--	--	0	0%	0	0.007	500	3	<0.05			
	AROCLOR-1232	mg/kg	11141-16-5	0.826	0.0826	29	0	0%	--	--	--	--	0	0%	0	0.006	500	3	<0.05			
	AROCLOR-1242	mg/kg	53469-21-9	0.826	0.0826	29	0	0%	--	--	--	--	0	0%	0	0.007	500	3	<0.05			
	AROCLOR-1248	mg/kg	12672-29-6	0.826	0.0826	29	0	0%	--	--	--	--	0	0%	0	0.007	500	3	<0.05			
	AROCLOR-1254	mg/kg	11097-69-1	0.826	0.0826	29	0	0%	--	--	--	--	0	0%	0	0.007	500	3	<0.05			
	AROCLOR-1260	mg/kg	11096-82-5	0.826	0.0826	29	0	0%	--	--	--	--	0	0%	0	0.007	500	3	<0.05			
SVOC [EPA 8270C/M]	1,1'-SULFONYBIS BENZENE	mg/kg	127-63-9	2,052	205	32	7	22%	0	540.3	0	17000	1	3%	2	0.890	23	0	2	5.3	<6.6	<6.6
	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg	608-73-1	ne	ne	28	5	18%	0	112.3	0	2300	--	--	--	0.000	0.000	--				
	1,2,4,5-TETRACHLOROBENZENE	mg/kg	95-94-3	205	20.5	32	2	6%	0	3.3	0	100	0	0%	1	0.055	13	0	<0.33	<0.5	<0.33	<0.33
	1,2,4-TRICHLOROBENZENE	mg/kg	120-82-1	110	11.0	32	6	19%	0	16.9	0	490	1	3%	3	0.050	0.380	0	<0.33	<0.5	<0.33	<0.33
	1,2-DICHLOROBENZENE	mg/kg	95-50-1	373	37.3	32	4	13%	0	1.1	0	32	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	1,3-DICHLOROBENZENE	mg/kg	541-73-1	373	37.3	32	1	3%	0	0.109	0	3.5	0	0%	0	0.090	13	0	<0.33	<0.5	<0.33	<0.33
	1,4-DICHLOROBENZENE	mg/kg	106-46-7	14.3	1.43	32	3	9%	0	2.7	0	81	1	3%	2	0.065	9.600	0	<0.33	<0.5	<0.33	<0.33
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg	98-57-7	ne	ne	32	6	19%	0	0.288	0	2.2	--	--	--	0.070	13	--	1.3	<0.5	<0.33	<0.33
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg	DCBZL	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.100	0.150	--	<0.33	<0.5	<0.33	<0.33

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	CAS	BCL[1]	1/10*BCL	No. Samples	No. Detcts.	Freq. Detct.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	No. ≥1/10*BCL	Min. ND SQL	Max ND SQL	No. NDs ≥BCL				
																			Location ID	EC-09	EC-09	EC-09
																			Sample ID	SB-EC9-0.0	SB-EC9-7.5	SB-EC9-25.0	SB-EC9-41.0
																			Depth (ft)	0-0.5	7.5-8	25-25.5	41-41.5
																			Date	8/10/2006	8/10/2006	8/10/2006	8/10/2006
SVOC [EPA 8270C/M]	2,4,5-TRICHLOROPHENOL	mg/kg	95-95-4	68,407	6,841	32	0	0%	--	--	--	--	0	0%	0	0.130	19	0	<0.33	<0.5	<0.33	<0.33
	2,4,6-TRICHLOROPHENOL	mg/kg	88-06-2	174	17.4	32	1	3%	0	0.116	0	3.7	0	0%	0	0.075	11	0	<0.33	<0.5	<0.33	<0.33
	2,4-DICHLOROPHENOL	mg/kg	120-83-2	2,052	205	32	1	3%	0	0.063	0	2	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	2,4-DIMETHYLPHENOL	mg/kg	105-67-9	13,681	1,368	32	0	0%	--	--	--	--	0	0%	0	0.087	15	0	<0.33	<0.5	<0.33	<0.33
	2,4-DINITROPHENOL	mg/kg	51-28-5	1,368	137	32	0	0%	--	--	--	--	0	0%	0	0.110	16	0	<0.66	<0.99	<0.66	<0.66
	2,4-DINITROTOLUENE	mg/kg	121-14-2	6.18	0.618	32	0	0%	--	--	--	--	0	0%	0	0.080	12	1	<0.33	<0.5	<0.33	<0.33
	2,6-DINITROTOLUENE	mg/kg	606-20-2	684	68.4	4	0	0%	--	--	--	--	0	0%	0	0.140	0.210	0	<0.33	<0.5	<0.33	<0.33
	2-CHLORONAPHTHALENE	mg/kg	91-58-7	389	38.9	32	0	0%	--	--	--	--	0	0%	0	0.065	9.600	0	<0.33	<0.5	<0.33	<0.33
	2-CHLOROPHENOL	mg/kg	95-57-8	1,667	167	32	0	0%	--	--	--	--	0	0%	0	0.070	10	0	<0.33	<0.5	<0.33	<0.33
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg	24468-13-1	ne	ne	1	1	100%	2.1	2.1	2.1	2.1	--	--	--	0.000	0.000	--	2.1			
	2-METHYLNAPHTHALENE	mg/kg	91-57-6	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.098	0.150	--	<0.33	<0.5	<0.33	<0.33
	2-METHYLPHENOL	mg/kg	95-48-7	34,203	3,420	4	0	0%	--	--	--	--	0	0%	0	0.140	0.210	0	<0.33	<0.5	<0.33	<0.33
	2-NITROANILINE	mg/kg	88-74-4	2,045	205	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	2-NITROPHENOL	mg/kg	88-75-5	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.060	8.900	--	<0.33	<0.5	<0.33	<0.33
	3,3'-DICHLOROBENZIDINE	mg/kg	91-94-1	4.26	0.426	31	0	0%	--	--	--	--	0	0%	0	0.097	22	1	<0.83	<1.2	<0.83	<0.83
	3-HEXENE-2,5-DIONE	mg/kg	3HEX25D	ne	ne	2	2	100%	2	2.2	2.15	2.3	--	--	--	0.000	0.000	--			2	2.3
	3-NITROANILINE	mg/kg	99-09-2	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.130	0.200	--	<0.33	<0.5	<0.33	<0.33
	4,6-DINITRO-2-METHYLPHENOL	mg/kg	534-52-1	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.110	0.160	--	<0.42	<0.63	<0.42	<0.42
	4-BROMOPHENYL PHENYL ETHER	mg/kg	101-55-3	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.075	11	--	<0.33	<0.5	<0.33	<0.33
	4-CHLORO-3-METHYLPHENOL	mg/kg	59-50-7	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.070	10	--	<0.33	<0.5	<0.33	<0.33
	4-CHLOROANILINE	mg/kg	106-47-8	9.58	0.958	32	0	0%	--	--	--	--	0	0%	0	0.080	18	1	<0.33	<0.5	<0.33	<0.33
	4-CHLOROBENZENETHIOL	mg/kg	106-54-7	ne	ne	32	6	19%	0	30.5	0	720	--	--	--	2.000	30	--	<6.6	<9.9	<6.6	<6.6
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg	123-09-1	ne	ne	32	12	38%	0	24.3	0	550	--	--	--	0.065	0.600	--	<0.33	<0.5	<0.33	<0.33
	4-CHLOROPHENYL PHENYL ETHER	mg/kg	7005-72-3	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.085	13	--	<0.33	<0.5	<0.33	<0.33
	4-METHYLPHENOL	mg/kg	106-44-5	3,420	342	32	0	0%	--	--	--	--	0	0%	0	0.080	12	0	<0.33	<0.5	<0.33	<0.33
	4-NITROANILINE	mg/kg	100-01-6	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.090	13	--	<0.83	<1.2	<0.83	<0.83
	4-NITROPHENOL	mg/kg	100-02-7	5,473	547	32	0	0%	--	--	--	--	0	0%	0	0.140	21	0	<0.83	<1.2	<0.83	<0.83
	ACENAPHTHENE	mg/kg	83-32-9	2,563	256	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	ACENAPHTHYLENE	mg/kg	208-96-8	147	14.7	32	0	0%	--	--	--	--	0	0%	0	0.070	10	0	<0.33	<0.5	<0.33	<0.33
	ANILINE	mg/kg	62-53-3	336	33.6	4	0	0%	--	--	--	--	0	0%	0	0.170	0.260	0	<0.42	<0.63	<0.42	<0.42
	ANTHRACENE	mg/kg	120-12-7	9,920	992	32	0	0%	--	--	--	--	0	0%	0	0.080	12	0	<0.33	<0.5	<0.33	<0.33
	AZOBENZENE	mg/kg	103-33-3	15.9	1.59	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	BENZO(A)ANTHRACENE	mg/kg	56-55-3	2.34	0.234	31	0	0%	--	--	--	--	0	0%	0	0.070	10	1	<0.33	<0.5	<0.33	<0.33
	BENZO(A)PYRENE	mg/kg	50-32-8	0.234	0.0234	30	0	0%	--	--	--	--	0	0%	0	0.055	8.1	7	<0.33	<0.5	<0.33	<0.33
	BENZO(B)FLUORANTHENE	mg/kg	205-99-2	2.34	0.234	30	1	3%	0	1.8	0	53	1	3%	1	0.050	0.750	0	<0.33	<0.5	<0.33	<0.33
	BENZO(GHI)PERYLENE	mg/kg	191-24-2	34,067	3,407	30	0	0%	--	--	--	--	0	0%	0	0.110	16	0	<0.33	<0.5	<0.33	<0.33
	BENZO(K)FLUORANTHENE	mg/kg	207-08-9	23.4	2.34	30	0	0%	--	--	--	--	0	0%	0	0.070	10	0	<0.33	<0.5	<0.33	<0.33
	BENZOIC ACID	mg/kg	65-85-0	100,000	10,000	32	2	6%	0	0.250	0	4	0	0%	0	0.070	22	0	<0.83	<1.2	<0.83	<0.83
	BENZOPHENONE	mg/kg	119-61-9	ne	ne	32	0	0%	--	--	--	--	--	--	--	0.074	11	--	<0.33	<0.5	<0.33	<0.33
	BENZYL ALCOHOL	mg/kg	100-51-6	100,000	10,000	32	0	0%	--	--	--	--	0	0%	0	0.120	30	0	<0.33UJ	<0.5UJ	<0.33UJ	<0.33UJ
	BIS(2-CHLOROETHOXY)METHANE	mg/kg	111-91-1	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.100	0.150	--	<0.33	<0.5	<0.33	<0.33
	BIS(2-CHLOROETHYL)ETHER	mg/kg	111-44-4	1.30	0.130	32	0	0%	--	--	--	--	0	0%	0	0.060	8.9	1	<0.17	<0.26	<0.17	<0.17
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	108-60-1	18.0	1.80	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	117-81-7	137	13.7	31	2	6%	0	0.049	0	0.84	0	0%	0	0.090	13	0	<0.33	<0.5	<0.33	<0.33
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg	1142-19-4	ne	ne	32	10	31%	0	1545.5	0	48000	--	--	--	0.097	1.400	--	0.31J+	15J+	<0.33	<0.33
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg	90-98-2	ne	ne	32	1	3%	0	0.00375	0	0.12	--	--	--	0.082	12	--	<0.33	<0.5	<0.33	<0.33
	BUTYL BENZYL PHTHALATE	mg/kg	85-68-7	240	24.0	4	0	0%	--	--	--	--	0	0%	0	0.110	0.160	0	<0.33	<0.5	<0.33	<0.33
	CHLORAL	mg/kg	75-87-6	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.004	0.006	--	<0.067	<0.1	<0.067	<0.1
	CHRYSENE	mg/kg	218-01-9	234	23.4	31	1	3%	0	0.387	0	12	0	0%	0	0.075	1.100	0	<0.33	<0.5	<0.33	<0.33
	DIBENZO(A,H)ANTHRACENE	mg/kg	53-70-3	0.234	0.0234	30	0	0%	--	--	--	--	0	0%	0	0.100	15	7	<0.42	<0.63	<0.42	<0.42
	DIBENZOFURAN	mg/kg	132-64-9	2,271	227	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	DICHLOROACETALDEHYDE	mg/kg	79-02-7	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.018	0.027	--	<0.17UJ	<0.26UJ	<0.17UJ	<0.26UJ
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg	298-06-6	90,844	9,084	28	3	11%	0	1.5	0	35	0	0%	0	0.000	0.000	0				
	DIETHYL PHTHALATE	mg/kg	84-66-2	100,000	10,000	32	0	0%	--	--	--	--	0	0%	0	0.090	14	0	<0.33	<0.5	<0.33	<0.33
	DIMETHYL PHTHALATE	mg/kg	131-11-3	100,000	10,000	32	2	6%	0	0.00691	0	0.14	0	0%	0	0.065	9.600	0	<0.33	<0.5	<0.33	<0.33
	DIMETHYL SULFOXIDE	mg/kg	67-68-5	ne	ne	2	2	100%	4.4	5.6	5.55	6.7	--	--	--	0.000	0.000	--			4.4	6.7
	DI-N-BUTYL PHTHALATE	mg/kg	84-74-2	68,407	6,841	32	4	13%	0	0.016	0	0.15	0	0%	0	0.071	13	0	<0.33	<0.5	<0.33U	<0.33
	DI-N-OCTYL PHTHALATE	mg/kg	117-84-0	ne	ne	31	0	0%	--	--	--	--	--	--	--	0.090	13	--	<0.33	<0.5	<0.33	<0.33

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	CAS	BCL[1]	1/10*BCL	No. Samples	No. Detcts.	Freq. Detct.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	No. ≥1/10*BCL	Min. ND SQL	Max ND SQL	No. NDs ≥BCL				
																			Location ID	EC-09	EC-09	EC-09
																			Sample ID	SB-EC9-0.0	SB-EC9-7.5	SB-EC9-25.0
																			Depth (ft)	0-0.5	7.5-8	25-25.5
																			Date	8/10/2006	8/10/2006	8/10/2006
SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg	206-44-0	24,447	2,445	32	1	3%	0	0.438	0	14	0	0%	0	0.070	1.000	0	<0.33	<0.5	<0.33	<0.33
	FLUORENE	mg/kg	86-73-7	3,666	367	32	0	0%	--	--	--	--	0	0%	0	0.070	10	0	<0.33	<0.5	<0.33	<0.33
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg	28903-24-4	ne	ne	28	1	4%	0	1.8	0	49	--	--	--	0.000	0.000	--				
	HEXACHLOROBENZENE	mg/kg	118-74-1	1.20	0.120	32	1	3%	0	0.00259	0	0.083	0	0%	0	0.069	10	1	<0.33	<0.5	<0.33	<0.33
	HEXACHLOROBUTADIENE	mg/kg	87-68-3	24.6	2.46	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	HEXACHLOROCYCLOPENTADIENE	mg/kg	77-47-4	4,090	409	32	0	0%	--	--	--	--	0	0%	0	0.090	13	0	<0.83	<1.2	<0.83	<0.83
	HEXACHLOROETHANE	mg/kg	67-72-1	137	13.7	32	0	0%	--	--	--	--	0	0%	0	0.065	9.600	0	<0.33	<0.5	<0.33	<0.33
	INDENO(1,2,3-CD)PYRENE	mg/kg	193-39-5	2.34	0.234	30	0	0%	--	--	--	--	0	0%	0	0.120	19	1	<0.33	<0.5	<0.33	<0.33
	ISOPHORONE	mg/kg	78-59-1	2,016	202	32	1	3%	0	0.00241	0	0.077	0	0%	0	0.050	8.900	0	<0.33	<0.5	<0.33	<0.33
	NAPHTHALENE	mg/kg	91-20-3	17.4	1.74	32	0	0%	--	--	--	--	0	0%	0	0.060	8.900	0	<0.33	<0.5	<0.33	<0.33
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg	118-29-6	ne	ne	16	3	19%	0	0.731	0	4.8	--	--	--	1.200	2.300	--	<6.6UJ	<9.9UJ	<6.6UJ	<6.6UJ
	NITROBENZENE	mg/kg	98-95-3	15.1	1.51	32	0	0%	--	--	--	--	0	0%	0	0.070	10	0	<0.33	<0.5	<0.33	<0.33
	N-NITROSODIMETHYLAMINE	mg/kg	62-75-9	0.0376	0.0038	32	0	0%	--	--	--	--	0	0%	0	0.055	8.1	32	<0.33	<0.5	<0.33	<0.33
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg	621-64-7	0.274	0.0274	32	0	0%	--	--	--	--	0	0%	0	0.070	10	9	<0.25	<0.38	<0.25	<0.25
	N-NITROSODIPHENYLAMINE	mg/kg	86-30-6	391	39.1	32	0	0%	--	--	--	--	0	0%	0	0.080	12	0	<0.33	<0.5	<0.33	<0.33
	OCTACHLOROSTYRENE	mg/kg	29082-74-4	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.220	0.330	--	<3.3	<5	<3.3	<3.3
	P-CHLOROPHENYL SULFONE	mg/kg	80-07-9	ne	ne	32	19	59%	0	2712.2	0.225	85000	--	--	--	0.085	0.640	--	4.5	1.1	<0.33	<0.33
	PENTACHLOROBENZENE	mg/kg	608-93-5	547	54.7	32	1	3%	0	0.938	0	30	0	0%	0	0.075	11	0	<0.33	<0.5	<0.33	<0.33
	PENTACHLOROPHENOL	mg/kg	87-86-5	3.00	0.300	32	0	0%	--	--	--	--	0	0%	0	0.130	22	1	<0.83	<1.2	<0.83	<0.83
	PHENANTHRENE	mg/kg	85-01-8	24.5	2.45	32	1	3%	0	0.469	0	15	0	0%	1	0.060	0.900	0	<0.33	<0.5	<0.33	<0.33
	PHENOL	mg/kg	108-95-2	100,000	10,000	32	1	3%	0	0.020	0	0.64	0	0%	0	0.090	13	0	<0.33	<0.5	<0.33	<0.33
	PHENYL DISULFIDE	mg/kg	882-33-7	ne	ne	32	2	6%	0	1.3	0	40	--	--	--	0.110	2.100	--	<0.33	0.53	<0.33	<0.33
	PHENYL SULFIDE	mg/kg	139-66-2	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.075	0.110	--	<0.33	<0.5	<0.33	<0.33
	PYRENE	mg/kg	129-00-0	19,340	1,934	31	0	0%	--	--	--	--	0	0%	0	0.080	12	0	<0.33	<0.5	<0.33	<0.33
	PYRIDINE	mg/kg	110-86-1	667	66.7	32	0	0%	--	--	--	--	0	0%	0	0.070	10	0	<0.2	<0.3	<0.2	<0.2
	THIOPHENOL	mg/kg	108-98-5	ne	ne	32	0	0%	--	--	--	--	--	--	--	1.800	380	--	<6.6	<9.9	<6.6	<6.6
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg	630-20-6	20.3	2.03	148	0	0%	--	--	--	--	0	0%	0	0.000	0.170	0	<0.0051	<0.0044	<0.0048	<0.0046
	1,1,1-TRICHLOROETHANE	mg/kg	71-55-6	1,385	139	148	0	0%	--	--	--	--	0	0%	0	0.000	0.310	0	<0.002	<0.0018	<0.0019	<0.0018
	1,1,2,2-TETRACHLOROETHANE	mg/kg	79-34-5	2.59	0.259	148	0	0%	--	--	--	--	0	0%	0	0.001	0.440	0	<0.002	<0.0018	<0.0019	<0.0018
	1,1,2-TRICHLOROETHANE	mg/kg	79-00-5	5.80	0.580	148	0	0%	--	--	--	--	0	0%	0	0.001	0.430	0	<0.002	<0.0018	<0.0019	<0.0018
	1,1-DICHLOROETHANE	mg/kg	75-34-3	23.3	2.33	148	0	0%	--	--	--	--	0	0%	0	0.000	0.320	0	<0.002	<0.0018	<0.0019	<0.0018
	1,1-DICHLOROETHENE	mg/kg	75-35-4	1,399	140	148	0	0%	--	--	--	--	0	0%	0	0.000	0.390	0	<0.0051	<0.0044	<0.0048	<0.0046
	1,1-DICHLOROPROPENE	mg/kg	563-58-6	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.000	0.320	--	<0.002	<0.0018	<0.0019	<0.0018
	1,2,3-TRICHLOROBENZENE	mg/kg	87-61-6	ne	ne	148	53	36%	0	0.812	0	37	--	--	--	0.001	0.470	--	<0.0051	<0.0044	<0.0048	<0.0046
	1,2,3-TRICHLOROPROPANE	mg/kg	96-18-4	0.106	0.0106	148	0	0%	--	--	--	--	0	0%	0	0.001	0.4	13	<0.01	<0.0089	<0.0096	<0.0092
	1,2,4-TRICHLOROBENZENE	mg/kg	120-82-1	110	11.0	148	98	66%	0	6.1	0.00375	270	3	2%	11	0.001	0.410	0	0.0067	0.0035	<0.0048	<0.0046
	1,2,4-TRIMETHYLBENZENE	mg/kg	95-63-6	671	67.1	148	18	12%	0	0.00023	0	0.0065	0	0%	0	0.001	0.270	0	<0.002	<0.0018	<0.0019	<0.0018
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	96-12-8	0.0583	0.0058	148	0	0%	--	--	--	--	0	0%	0	0.001	0.5	32	<0.0051	<0.0044	<0.0048	<0.0046
	1,2-DIBROMOETHANE	mg/kg	106-93-4	0.185	0.0185	148	0	0%	--	--	--	--	0	0%	0	0.001	0.3	5	<0.002	<0.0018	<0.0019	<0.0018
	1,2-DICHLOROBENZENE	mg/kg	95-50-1	373	37.3	148	49	33%	0	0.854	0	30	0	0%	0	0.001	0.260	0	<0.002	<0.0018	<0.0019	<0.0018
	1,2-DICHLOROETHANE	mg/kg	107-06-2	2.41	0.241	148	0	0%	--	--	--	--	0	0%	0	0.001	0.330	0	<0.002	<0.0018	<0.0019	<0.0018
	1,2-DICHLOROPROPANE	mg/kg	78-87-5	4.54	0.454	148	0	0%	--	--	--	--	0	0%	0	0.000	0.280	0	<0.002	<0.0018	<0.0019	<0.0018
	1,3,5-TRICHLOROBENZENE	mg/kg	108-70-3	ne	ne	148	5	3%	0	0.022	0	1.1	--	--	--	0.000	0.400	--	<0.002	<0.0018	<0.0019	<0.0018
	1,3,5-TRIMETHYLBENZENE	mg/kg	108-67-8	254	25.4	148	4	3%	0	2.1081E-05	0	0.0014	0	0%	0	0.001	0.240	0	<0.002	<0.0018	<0.0019	<0.0018
	1,3-DICHLOROBENZENE	mg/kg	541-73-1	373	37.3	148	27	18%	0	0.076	0	3.5	0	0%	0	0.001	0.250	0	<0.002	<0.0018	<0.0019	<0.0018
	1,3-DICHLOROPROPANE	mg/kg	142-28-9	71.6	7.16	148	0	0%	--	--	--	--	0	0%	0	0.001	0.290	0	<0.002	<0.0018	<0.0019	<0.0018
	1,4-DICHLOROBENZENE	mg/kg	106-46-7	14.3	1.43	148	53	36%	0	1.1	0	45	5	3%	11	0.001	0.270	0	<0.002	<0.0018	<0.0019	<0.0018
	2,2,3-TRIMETHYLBUTANE	mg/kg	464-06-2	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.001	0.510	--	<0.002	<0.0018	<0.0019	<0.0018
	2,2-DICHLOROPROPANE	mg/kg	594-20-7	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.000	0.220	--	<0.002	<0.0018	<0.0019	<0.0018
	2,2-DIMETHYLPENTANE	mg/kg	590-35-2	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.001	0.510	--	<0.002	<0.0018	<0.0019	<0.0018
	2,3-DIMETHYLPENTANE	mg/kg	565-59-3	ne	ne	148	18	12%	0	0.056	0	2.3	--	--	--	0.001	0.430	--	<0.002	<0.0018	<0.0019	<0.0018
	2,4-DIMETHYLPENTANE	mg/kg	108-08-7	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.001	0.470	--	<0.002	<0.0018	<0.0019	<0.0018
	2-BUTANONE	mg/kg	78-93-3	34,092	3,409	148	25	17%	0	0.00182	0	0.027	0	0%	0	0.005	5.800	0	<0.01	<0.0089	<0.0096	<0.0092
	2-CHLOROTOLUENE	mg/kg	95-49-8	511	51.1	148	0	0%	--	--	--	--	0	0%	0	0.001	0.260	0	<0.0051	<0.0044	<0.0048	<0.0046
	2-HEXANONE	mg/kg	591-78-6	2,147	215	148	0	0%	--	--	--	--	0	0%	0	0.007	0.810	0	<0.01	<0.0089	<0.0096	<0.0092
	2-METHYLHEXANE	mg/kg	591-76-4	ne	ne	148	49	33%	0	0.211	0	6.3	--	--	--	0.001	0.430	--	<0.002	<0.0018	<0.0019	<0.0018
	3,3-DIMETHYLPENTANE	mg/kg	562-49-2	ne	ne	148	1	1%	0	1.0135E-05	0	0.0015	--	--	--	0.001	0.400	--	<0.002	<0.0018	<0.0019	<0.0018
	3-ETHYLPENTANE	mg/kg	617-78-7	ne	ne	148	6	4%	0	0.019	0	1.4	--	--	--	0.001	0.430	--	<0.002	<0.0018	<0.0019	<0.0018

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	CAS	BCL[1]	1/10*BCL	No. Samples	No. Detcts.	Freq. Detct.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	No. ≥1/10*BCL	Min. ND SQL	Max ND SQL	No. NDs ≥BCL				
																		Location ID	EC-09	EC-09	EC-09	EC-09
																		Sample ID	SB-EC9-0.0	SB-EC9-7.5	SB-EC9-25.0	SB-EC9-41.0
																		Depth (ft)	0-0.5	7.5-8	25-25.5	41-41.5
																		Date	8/10/2006	8/10/2006	8/10/2006	8/10/2006
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	589-34-4	ne	ne	148	51	34%	0	0.313	0	10	--	--	--	0.001	0.470	--	<0.002	<0.0018	<0.0019	<0.0018
	4-CHLOROTOLUENE	mg/kg	106-43-4	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.001	0.260	--	<0.0051	<0.0044	<0.0048	<0.0046
	4-METHYL-2-PENTANONE	mg/kg	108-10-1	17,196	1,720	148	0	0%	--	--	--	--	0	0%	0	0.003	3.200	0	<0.0051	<0.0044	<0.0048	<0.0046
	ACETONE	mg/kg	67-64-1	100,000	10,000	148	62	42%	0	0.020	0	0.17	0	0%	0	0.006	8.900	0	0.012J+	<0.0091	<0.0096	<0.0092
	BENZENE	mg/kg	71-43-2	4.50	0.450	148	108	73%	0	5.0	0.00195	210	14	9%	36	0.000	0.082	0	<0.002	<0.0018	<0.0019	<0.0018
	BROMOBENZENE	mg/kg	108-86-1	695	69.5	148	0	0%	--	--	--	--	0	0%	0	0.001	0.270	0	<0.0051	<0.0044	<0.0048	<0.0046
	BROMOCHLOROMETHANE	mg/kg	74-97-5	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.001	0.400	--	<0.0051	<0.0044	<0.0048	<0.0046
	BROMODICHLOROMETHANE	mg/kg	75-27-4	3.60	0.360	148	0	0%	--	--	--	--	0	0%	0	0.000	0.250	0	<0.002	<0.0018	<0.0019	<0.0018
	BROMOFORM	mg/kg	75-25-2	242	24.2	148	0	0%	--	--	--	--	0	0%	0	0.001	0.320	0	<0.0051	<0.0044	<0.0048	<0.0046
	BROMOMETHANE	mg/kg	74-83-9	42.9	4.29	148	0	0%	--	--	--	--	0	0%	0	0.001	0.360	0	<0.0051	<0.0044	<0.0048	<0.0046
	CARBON DISULFIDE	mg/kg	75-15-0	721	72.1	148	41	28%	0	0.220	0	9.5	0	0%	0	0.001	0.460	0	<0.0051	<0.0044	<0.0048	<0.0046
	CARBON TETRACHLORIDE	mg/kg	56-23-5	4.07	0.407	148	0	0%	--	--	--	--	0	0%	0	0.000	0.230	0	<0.0051	<0.0044	<0.0048	<0.0046
	CHLOROBENZENE	mg/kg	108-90-7	695	69.5	148	110	74%	0	6.2	0.0042	210	0	0%	3	0.000	0.053	0	<0.002	0.0017	<0.0019	<0.0018
	CHLOROETHANE	mg/kg	75-00-3	1,096	110	148	13	9%	0	0.00023	0	0.0044	0	0%	0	0.001	0.360	0	<0.0051	<0.0044	<0.0048	<0.0046
	CHLOROFORM	mg/kg	67-66-3	1.71	0.171	148	0	0%	--	--	--	--	0	0%	0	0.000	0.360	0	<0.002	<0.0018	<0.0019	<0.0018
	CHLOROMETHANE	mg/kg	74-87-3	8.95	0.895	148	1	1%	0	8.7838E-06	0	0.0013	0	0%	0	0.001	0.400	0	<0.0051	<0.0044	<0.0048	<0.0046
	CIS-1,2-DICHLOROETHENE	mg/kg	156-59-2	791	79.1	148	0	0%	--	--	--	--	0	0%	0	0.001	0.390	0	<0.002	<0.0018	<0.0019	<0.0018
	CIS-1,3-DICHLOROPROPENE	mg/kg	10061-01-5	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.000	0.290	--	<0.002	<0.0018	<0.0019	<0.0018
	DIBROMOCHLOROMETHANE	mg/kg	124-48-1	6.15	0.615	148	0	0%	--	--	--	--	0	0%	0	0.001	0.220	0	<0.002	<0.0018	<0.0019	<0.0018
	DIBROMOMETHANE	mg/kg	74-95-3	210	21.0	148	0	0%	--	--	--	--	0	0%	0	0.001	0.340	0	<0.002	<0.0018	<0.0019	<0.0018
	DICHLORODIFLUOROMETHANE	mg/kg	75-71-8	340	34.0	148	0	0%	--	--	--	--	0	0%	0	0.001	0.490	0	<0.0051	<0.0044	<0.0048	<0.0046
	DIMETHYL DISULFIDE	mg/kg	624-92-0	ne	ne	148	82	55%	0	4.8	0.00275	140	--	--	--	0.001	0.510	--	<0.002	<0.0018	0.17	0.22
	ETHYLBENZENE	mg/kg	100-41-4	21.0	2.10	148	13	9%	0	9.3041E-05	0	0.0025	0	0%	0	0.000	0.220	0	<0.002	<0.0018	<0.0019	<0.0018
	HEXACHLOROBUTADIENE	mg/kg	87-68-3	24.6	2.46	148	0	0%	--	--	--	--	0	0%	0	0.001	0.320	0	<0.0051	<0.0044	<0.0048	<0.0046
	ISOPROPYLBENZENE	mg/kg	98-82-8	647	64.7	36	0	0%	--	--	--	--	0	0%	0	0.000	0.041	0	<0.002	<0.0018	<0.0019	<0.0018
	M,P-XYLENE	mg/kg	136777-61-2	ne	ne	148	27	18%	0	0.00040	0	0.0087	--	--	--	0.001	0.430	--	<0.002	<0.0018	<0.0019	<0.0018
	METHYLENE CHLORIDE	mg/kg	75-09-2	60.4	6.04	148	0	0%	--	--	--	--	0	0%	0	0.005	3.500	0	<0.02	<0.018	<0.019	<0.018
	METHYL-TERT-BUTYL ETHER	mg/kg	1634-04-4	216	21.6	148	0	0%	--	--	--	--	0	0%	0	0.001	0.500	0	<0.0051	<0.0044	<0.0048	<0.0046
	NAPHTHALENE	mg/kg	91-20-3	17.4	1.74	148	0	0%	--	--	--	--	0	0%	0	0.001	0.650	0	<0.0051	<0.0044	<0.0048	<0.0046
	N-BUTYLBENZENE	mg/kg	104-51-8	237	23.7	148	0	0%	--	--	--	--	0	0%	0	0.001	0.270	0	<0.0051	<0.0044	<0.0048	<0.0046
	N-HEPTANE	mg/kg	142-82-5	220	22.0	148	54	36%	0	0.378	0	12	0	0%	0	0.001	0.390	0	0.0023	<0.0018	<0.0019	<0.0018
	NONANAL	mg/kg	124-19-6	ne	ne	148	8	5%	0	0.00040	0	0.016	--	--	--	0.003	3.200	--	0.0055	<0.0044	<0.0048	0.004
	N-PROPYLBENZENE	mg/kg	103-65-1	237	23.7	148	2	1%	0	1.1554E-05	0	0.0011	0	0%	0	0.000	0.290	0	<0.002	<0.0018	<0.0019	<0.0018
	O-XYLENE	mg/kg	95-47-6	282	28.2	148	14	9%	0	0.00014	0	0.004	0	0%	0	0.000	0.230	0	<0.002	<0.0018	<0.0019	<0.0018
	P-ISOPROPYL TOLUENE	mg/kg	99-87-6	647	64.7	148	1	1%	0	1.2162E-05	0	0.0018	0	0%	0	0.001	0.390	0	<0.002	<0.0018	<0.0019	<0.0018
	SEC-BUTYLBENZENE	mg/kg	135-98-8	223	22.3	148	0	0%	--	--	--	--	0	0%	0	0.001	0.250	0	<0.0051	<0.0044	<0.0048	<0.0046
	STYRENE	mg/kg	100-42-5	1,734	173	148	0	0%	--	--	--	--	0	0%	0	0.000	0.240	0	<0.002	<0.0018	<0.0019	<0.0018
	TENTATIVE IDENTIFIED COMPOUND	mg/kg	TIC	ne	ne	4	0	0%	--	--	--	--	--	--	--	0.000	0.000	--	<0.1	<0.089	<0.096	<0.092
	TERT- BUTYLBENZENE	mg/kg	98-06-6	393	39.3	148	0	0%	--	--	--	--	0	0%	0	0.001	0.220	0	<0.0051	<0.0044	<0.0048	<0.0046
	TETRACHLOROETHENE	mg/kg	127-18-4	3.28	0.328	148	13	9%	0	0.00195	0	0.16	0	0%	0	0.000	0.360	0	<0.002	<0.0018	<0.0019	<0.0018
	TOLUENE	mg/kg	108-88-3	521	52.1	148	80	54%	0	0.172	0.0006	6.9	0	0%	0	0.000	0.130	0	<0.002	<0.0018	<0.0019	<0.0018
	TRANS-1,2-DICHLOROETHENE	mg/kg	156-60-5	600	60.0	148	0	0%	--	--	--	--	0	0%	0	0.000	0.400	0	<0.002	<0.0018	<0.0019	<0.0018
	TRANS-1,3-DICHLOROPROPENE	mg/kg	10061-02-6	ne	ne	148	0	0%	--	--	--	--	--	--	--	0.000	0.280	--	<0.002	<0.0018	<0.0019	<0.0018
	TRICHLOROETHENE	mg/kg	79-01-6	5.49	0.549	148	0	0%	--	--	--	--	0	0%	0	0.000	0.310	0	<0.002	<0.0018	<0.0019	<0.0018
	TRICHLOROFLUOROMETHANE	mg/kg	75-69-4	1,983	198	148	2	1%	0	7.7703E-06	0	0.00064	0	0%	0	0.000	0.470	0	<0.0051	<0.0044	<0.0048	<0.0046
	VINYL CHLORIDE	mg/kg	75-01-4	1.86	0.186	148	0	0%	--	--	--	--	0	0%	0	0.001	0.530	0	<0.0051	<0.0044	<0.0048	<0.0046

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	TP-49 TP-49-0.0 0-0.25 8/15/2007	TP-49 TP-49-1.0 1-1.25 8/15/2007	TP-58 TP-58-0.0 0-0.25 8/15/2007	TP-58 TP-58-1.0 1-1.25 8/15/2007	TP-61 TP-61-0.0 0-0.25 8/15/2007	TP-61 TP-61-1.0 1-1.25 8/15/2007	SB-EC-88 SB-EC-88-2.0 2-2.5 11/6/2009	SB-EC-88 SB-EC-88-5.0 5-5.5 11/6/2009	SB-EC-88 SB-EC-88-10.0 10-10.5 11/6/2009	SB-EC-88 SB-EC-88-15.0 15-15.5 11/6/2009	SB-EC-88 SB-EC-88-20.0 19.5-20 11/6/2009	SB-EC-99 SB-EC-99-2.0 2-2.5 11/11/2009	SB-EC-99 SB-EC-99-3.0 3-3.5 11/11/2009	SB-EC-99 SB-EC-99-5.0 5-5.5 11/11/2009	SB-EC-99 SB-EC-99-10.0 10-10.5 11/11/2009	SB-EC-99 SB-EC-99-15.0 15-15.5 11/11/2009	SB-EC-99 SB-EC-99-20.0 19.5-20 11/11/2009	SB-EC-99 SB-EC-99-25.0 25-25.5 11/11/2009
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																			
	CHLOROACETALDEHYDE	mg/kg																			
	FORMALDEHYDE	mg/kg																			
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT																			
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT																			
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT																			
	SHORT AMPHIBOLE STRUCTURES	COUNT																			
	SHORT ASBESTOS STRUCTURES	COUNT																			
	SHORT CHRYSOTILE STRUCTURES	COUNT																			
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT																			
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT																			
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT																			
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg																			
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg																			
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg																			
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg																			
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg																			
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg																			
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	2,3,7,8-TCDD	ng/kg																			
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg																			
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg																			
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg																			
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg																			
	HEPTACHLORINATED DIBENZOFURAN	ng/kg																			
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	HEXACHLORINATED DIBENZOFURAN	ng/kg																			
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	OCTACHLORINATED DIBENZOFURAN	ng/kg																			
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	PENTACHLORINATED DIBENZOFURAN	ng/kg																			
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
	TETRACHLORINATED DIBENZOFURAN	ng/kg																			
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg																			
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g																			
	Fraction organic Carbon	g/g																			
	Percent Moisture	%																			
	PH	pH Units																			
	TOTAL ORGANIC CARBON	mg/kg																			
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																			
	EFH (C8 - C40)	mg/kg																			
	ETHANOL	mg/kg																			
	METHANOL	mg/kg																			
	ORO (C25-C40)	mg/kg																			
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																			
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																			
	CHLORIDE	mg/kg																			
	CYANIDE	mg/kg																			
	FLUORIDE	mg/kg																			
	IODIDE	mg/kg																			
	NITRATE (AS N)	mg/kg																			
	PH	pH Units																			
	PHOSPHATE	mg/kg																			
	PHOSPHORUS, TOTAL (AS P)	mg/kg																			
	SULFATE	mg/kg																			
	TOTAL CARBON	mg/kg																			
	TOTAL INORGANIC CARBON	mg/kg																			
	TOTAL ORGANIC CARBON	mg/Kg																			

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	TP-49 TP-49-0.0 0-0.25 8/15/2007	TP-49 TP-49-1.0 1-1.25 8/15/2007	TP-58 TP-58-0.0 0-0.25 8/15/2007	TP-58 TP-58-1.0 1-1.25 8/15/2007	TP-61 TP-61-0.0 0-0.25 8/15/2007	TP-61 TP-61-1.0 1-1.25 8/15/2007	SB-EC-88 SB-EC-88-2.0 2-2.5 11/6/2009	SB-EC-88 SB-EC-88-5.0 5-5.5 11/6/2009	SB-EC-88 SB-EC-88-10.0 10-10.5 11/6/2009	SB-EC-88 SB-EC-88-15.0 15-15.5 11/6/2009	SB-EC-88 SB-EC-88-20.0 19.5-20 11/6/2009	SB-EC-99 SB-EC-99-2.0 2-2.5 11/11/2009	SB-EC-99 SB-EC-99-3.0 3-3.5 11/11/2009	SB-EC-99 SB-EC-99-5.0 5-5.5 11/11/2009	SB-EC-99 SB-EC-99-10.0 10-10.5 11/11/2009	SB-EC-99 SB-EC-99-15.0 15-15.5 11/11/2009	SB-EC-99 SB-EC-99-20.0 19.5-20 11/11/2009	SB-EC-99 SB-EC-99-25.0 25-25.5 11/11/2009
METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg	13000	16000	11000	9800	9700	14000								5900		8600		
	ANTIMONY	mg/kg	0.16UJ	0.12UJ	0.16UJ	0.12UJ	0.17UJ	0.12UJ								0.039UJ		<0.014		
	ARSENIC	mg/kg	2.1	5.3	1.6	7.6	1.5	3.2	2.6	4.4	3.3	2.4	3.2	2.7	2.9	3.4	3.3	5.3	6.7	3.1
	BARIUM	mg/kg	170J+	120J+	160J+	150J+	190J+	120J+								140		78		
	BERYLLIUM	mg/kg	0.62	0.92	0.56	0.75	0.47	0.87								0.5		0.34		
	BORON	mg/kg																		
	CADMIUM	mg/kg	0.11	<0.06	0.11	0.085	0.16	0.092								0.61		0.46		
	CALCIUM	mg/kg	15000	29000	26000	28000	18000	24000												
	CHROMIUM	mg/kg	13	14	14	35	14	17								6.4		6		
	COBALT	mg/kg	6.1	4.7	6.6	4.3	6.4	6.1								4.2		4.4		
	COPPER	mg/kg	13	11J-	13	8.7J-	13	12J-								12		9.3		
	HEXAVALENT CHROMIUM	mg/kg																		
	IRON	mg/kg	17000	14000	18000	8900	17000	13000												
	LEAD	mg/kg	10	11	9.6	9.0	13	11								15		4.4		
	MAGNESIUM	mg/kg	7900	20000	8800	18000	7200	17000												
	MANGANESE	mg/kg	390	130J+	400	99J+	620	190J+								320		150		
	MERCURY	mg/kg																		
	MOLYBDENUM	mg/kg														0.51		0.18U		
	NICKEL	mg/kg	12	11J-	12	9.4J-	12	11J-								12		13		
	PHOSPHORUS (WHITE)	mg/kg	590	250	750	150	700	360												
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	POTASSIUM	mg/kg	6000	4800	4200	3000	3000	3800												
	Potassium	mg/kg																		
	SELENIUM	mg/kg	0.39	0.36	0.47	1.7	0.29	0.29								0.51		0.71		
	SILVER	mg/kg	0.14J-	<0.1UJ	0.11J-	<0.1UJ	0.14J-	<0.1UJ								0.14J		0.062		
	SODIUM	mg/kg	620J+	1800	2700J+	8400	260J+	1300												
	THALLIUM	mg/kg	0.18	0.20	0.16	0.25	0.14	0.22								0.2		0.082U		
	TIN	mg/kg	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3												
	TITANIUM	mg/kg	1100	180J	1100	140J	1100	180J												
	URANIUM	mg/kg														0.88		0.89		
	VANADIUM	mg/kg	39	17	46	38	44	28								16		17		
	ZINC	mg/kg	32J-	30J-	31J-	26J-	33J-	31J-								26		18		
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg							<0.0015	<0.0015	0.0023	<0.0015	<0.0015	<0.0045	<0.0045	0.014	<0.0015	<0.0045	<0.0045	<0.011
	2,4'-DDE	mg/kg							<0.001	<0.001	<0.001	<0.001	<0.001	0.058	0.088	0.056	0.0053	0.12J+	<0.003	0.078J
	2,4'-DDT	mg/kg																		
	4,4'-DDD	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0067	<0.0045	<0.011	<0.0015	0.035J+	<0.0045	0.025J
	4,4'-DDE	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.13	0.48	0.13	0.027	0.17	<0.0045	0.37J
	4,4'-DDT	mg/kg	<0.025	<0.01	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	3.3	4.7	<0.011	0.28	<0.45	1.1	3.2
	ALDRIN	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045	<0.011
	ALPHA-BHC	mg/kg	<0.025	<0.006	0.085	<0.5	<0.025	0.38	0.021	0.036J	0.0038U	0.0036U	0.0083	0.6	1.3	0.078	0.21	0.55	0.7	0.74
	BETA-BHC	mg/kg	0.26	0.094	0.49	1.5	0.21	0.93	0.042	0.016J+	<0.0015	<0.0015	<0.0015	4	4	88	0.94	4.9	1.3	2.7
	CHLORDANE	mg/kg	<0.25	<0.04	<1	<5	<0.25	<2.5	<0.01	<0.01	<0.01	<0.01	<0.01	<0.03	<0.03	<0.075	<0.01	<0.03	<0.03	<0.075
	DELTA-BHC	mg/kg	<0.0375	<0.006	<0.2	<1	<0.0375	<0.5	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	0.03	<0.0015	<0.0045	<0.0045	<0.011
	DIELDRIN	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045	<0.011
	ENDOSULFAN I	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045	<0.011
	ENDOSULFAN II	mg/kg	<0.025	<0.01	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045	<0.011
	ENDOSULFAN SULFATE	mg/kg	<0.05	<0.008	<0.2	<1	<0.05	<0.5	<0.002	<0.002	<0.002	<0.002	<0.002	<0.006	<0.006	<0.015	<0.002	<0.006	<0.006	<0.015
	ENDRIN	mg/kg	<0.025	<0.01	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045	<0.011
	ENDRIN ALDEHYDE	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045	<0.011
	ENDRIN KETONE	mg/kg	<0.025	<0.008	<0.1	<0.5	<0.025	<0.25	<0.002	<0.002	0.0024	<0.002	<0.002	<0.006	<0.006	<0.015	<0.002	0.0072J+	<0.006	<0.015
	GAMMA-BHC (LINDANE)	mg/kg	<0.025	<0.006	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	0.0078	<0.0045	0.013	<0.0015	<0.0045	<0.0045	<0.011
	HEPTACHLOR	mg/kg	<0.025	<0.008	<0.1	<0.5	<0.025	<0.25	<0.002	<0.002	<0.002	<0.002	<0.002	<0.006	<0.006	<0.015	<0.002	<0.006	<0.006	<0.015
	HEPTACHLOR EPOXIDE	mg/kg	<0.025	<0.008	<0.1	<0.5	<0.025	<0.25	<0.002	<0.002	<0.002	<0.002	<0.002	<0.006	<0.006	<0.015	<0.002	<0.006	<0.006	<0.015
	METHOXYCHLOR	mg/kg	<0.025	<0.01	<0.1	<0.5	<0.025	<0.25	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0045	<0.0045	<0.011	<0.0015	<0.0045	<0.0045UJ	<0.011
	TOXAPHENE	mg/kg	<1	<0.3	<4	<20	<1	<10	<0.05	<0.05	<0.05	<0.05	<0.05	<0.15	<0.15	<0.38	<0.05	<0.15	<0.15	<0.38

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	TP-49 TP-49-0.0 0-0.25 8/15/2007	TP-49 TP-49-1.0 1-1.25 8/15/2007	TP-58 TP-58-0.0 0-0.25 8/15/2007	TP-58 TP-58-1.0 1-1.25 8/15/2007	TP-61 TP-61-0.0 0-0.25 8/15/2007	TP-61 TP-61-1.0 1-1.25 8/15/2007	SB-EC-88 SB-EC-88-2.0 2-2.5 11/6/2009	SB-EC-88 SB-EC-88-5.0 5-5.5 11/6/2009	SB-EC-88 SB-EC-88-10.0 10-10.5 11/6/2009	SB-EC-88 SB-EC-88-15.0 15-15.5 11/6/2009	SB-EC-88 SB-EC-88-20.0 19.5-20 11/6/2009	SB-EC-99 SB-EC-99-2.0 2-2.5 11/11/2009	SB-EC-99 SB-EC-99-3.0 3-3.5 11/11/2009	SB-EC-99 SB-EC-99-5.0 5-5.5 11/11/2009	SB-EC-99 SB-EC-99-10.0 10-10.5 11/11/2009	SB-EC-99 SB-EC-99-15.0 15-15.5 11/11/2009	SB-EC-99 SB-EC-99-20.0 19.5-20 11/11/2009	SB-EC-99 SB-EC-99-25.0 25-25.5 11/11/2009
OP PEST [EPA 8141A]	AZINPHOS-METHYL	mg/kg																		
	BOLSTAR	mg/kg																		
	CARBOPHENOTHION (TRITHION)	mg/kg																		
	CHLORPYRIFOS	mg/kg																		
	COUMAPHOS	mg/kg																		
	DEMETON	mg/kg																		
	DEMETON-O	mg/kg																		
	DIAZINON	mg/kg																		
	DICHLORVOS	mg/kg																		
	DIMETHOATE	mg/kg																		
	DISULFOTON	mg/kg																		
	EPN	mg/kg																		
	ETHION	mg/kg																		
	ETHOPROP	mg/kg																		
	ETHYL PARATHION	mg/kg																		
	FAMPHUR	mg/kg																		
	FENSULFOTHION	mg/kg																		
	FENTHION	mg/kg																		
	MALATHION	mg/kg																		
	MERPHOS	mg/kg																		
	METHYL CARBOPHENOTHION	mg/kg																		
	METHYL PARATHION	mg/kg																		
	MEVINPHOS	mg/kg																		
	NALED	mg/kg																		
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg																		
	PHORATE	mg/kg																		
	PHOSMET	mg/kg																		
	RONNEL	mg/kg																		
	STIROPHOS	mg/kg																		
	SULFOTEPP	mg/kg																		
	TETRACHLORVINPHOS	mg/kg																		
	THIONAZIN	mg/kg																		
	TOKUTHION	mg/kg																		
	TRICHLORNATE	mg/kg																		
ORGACIDS [HPLC]	4-CHLOROBENZENESULFONIC ACID	mg/Kg																		
	BENZENESULFONIC ACID	mg/Kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg																		
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg																		
	PHTHALIC ACID	mg/Kg																		
PCB [EPA 8082]	AROCLOR-1016	mg/kg																		
	AROCLOR-1221	mg/kg																		
	AROCLOR-1232	mg/kg																		
	AROCLOR-1242	mg/kg																		
	AROCLOR-1248	mg/kg																		
	AROCLOR-1254	mg/kg																		
	AROCLOR-1260	mg/kg																		
SVOC [EPA 8270C/M]	1,1'-SULFONYBIS BENZENE	mg/kg																		
	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg																		
	1,2,4,5-TETRACHLOROBENZENE	mg/kg																		
	1,2,4-TRICHLOROBENZENE	mg/kg																		
	1,2-DICHLOROBENZENE	mg/kg																		
	1,3-DICHLOROBENZENE	mg/kg																		
	1,4-DICHLOROBENZENE	mg/kg																		
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg																		
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																		

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SVOC	2,4,5-TRICHLOROPHENOL	mg/kg																		
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg																		
	2,4-DICHLOROPHENOL	mg/kg																		
	2,4-DIMETHYLPHENOL	mg/kg																		
	2,4-DINITROPHENOL	mg/kg																		
	2,4-DINITROTOLUENE	mg/kg																		
	2,6-DINITROTOLUENE	mg/kg																		
	2-CHLORONAPHTHALENE	mg/kg																		
	2-CHLOROPHENOL	mg/kg																		
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																		
	2-METHYLNAPHTHALENE	mg/kg																		
	2-METHYLPHENOL	mg/kg																		
	2-NITROANILINE	mg/kg																		
	2-NITROPHENOL	mg/kg																		
	3,3'-DICHLOROBENZIDINE	mg/kg																		
	3-HEXENE-2,5-DIONE	mg/kg																		
	3-NITROANILINE	mg/kg																		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																		
	4-BROMOPHENYL PHENYL ETHER	mg/kg																		
	4-CHLORO-3-METHYLPHENOL	mg/kg																		
	4-CHLOROANILINE	mg/kg																		
	4-CHLOROBENZENETHIOL	mg/kg																		
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg																		
	4-CHLOROPHENYL PHENYL ETHER	mg/kg																		
	4-METHYLPHENOL	mg/kg																		
	4-NITROANILINE	mg/kg																		
	4-NITROPHENOL	mg/kg																		
	ACENAPHTHENE	mg/kg																		
	ACENAPHTHYLENE	mg/kg																		
	ANILINE	mg/kg																		
	ANTHRACENE	mg/kg																		
	AZOBENZENE	mg/kg																		
	BENZO(A)ANTHRACENE	mg/kg																		
	BENZO(A)PYRENE	mg/kg																		
	BENZO(B)FLUORANTHENE	mg/kg																		
	BENZO(GHI)PERYLENE	mg/kg																		
	BENZO(K)FLUORANTHENE	mg/kg																		
	BENZOIC ACID	mg/kg																		
	BENZOPHENONE	mg/kg																		
	BENZYL ALCOHOL	mg/kg																		
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																		
	BIS(2-CHLOROETHYL)ETHER	mg/kg																		
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg																		
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg																		
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg																		
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg																		
	BUTYL BENZYL PHTHALATE	mg/kg																		
	CHLORAL	mg/kg																		
	CHRYSENE	mg/kg																		
	DIBENZO(A,H)ANTHRACENE	mg/kg																		
	DIBENZOFURAN	mg/kg																		
	DICHLOROACETALDEHYDE	mg/kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg																		
	DIETHYL PHTHALATE	mg/kg																		
	DIMETHYL PHTHALATE	mg/kg																		
	DIMETHYL SULFOXIDE	mg/kg																		
	DI-N-BUTYL PHTHALATE	mg/kg																		
	DI-N-OCTYL PHTHALATE	mg/kg																		

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SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg																		
	FLUORENE	mg/kg																		
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg																		
	HEXACHLOROBENZENE	mg/kg																		
	HEXACHLOROBUTADIENE	mg/kg																		
	HEXACHLOROCYCLOPENTADIENE	mg/kg																		
	HEXACHLOROETHANE	mg/kg																		
	INDENO(1,2,3-CD)PYRENE	mg/kg																		
	ISOPHORONE	mg/kg																		
	NAPHTHALENE	mg/kg																		
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg																		
	NITROBENZENE	mg/kg																		
	N-NITROSODIMETHYLAMINE	mg/kg																		
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg																		
	N-NITROSODIPHENYLAMINE	mg/kg																		
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg																		
	PENTACHLOROBENZENE	mg/kg																		
	PENTACHLOROPHENOL	mg/kg																		
	PHENANTHRENE	mg/kg																		
	PHENOL	mg/kg																		
	PHENYL DISULFIDE	mg/kg																		
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg																		
	PYRIDINE	mg/kg																		
	THIOPHENOL	mg/kg																		
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg							<0.00051	<0.00046	<0.0006	<0.00048	<0.044	<0.00053	<0.00064	<0.00054	<0.00051	<0.021	<0.00047	<0.039
	1,1,1-TRICHLOROETHANE	mg/kg							<0.00062	<0.00057	<0.00073	<0.00058	<0.079	<0.00065	<0.00079	<0.00066	<0.00063	<0.039	<0.00058	<0.071UJ
	1,1,2,2-TETRACHLOROETHANE	mg/kg							<0.00077	<0.0007	<0.0009	<0.00072	<0.11	<0.0008	<0.00097	<0.00081	<0.00077	<0.055	<0.00072	<0.1
	1,1,2-TRICHLOROETHANE	mg/kg							<0.00078	<0.00071	<0.00091	<0.00072	<0.11	<0.00081	<0.00098	<0.00082	<0.00078	<0.054	<0.00072	<0.099
	1,1-DICHLOROETHANE	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.084	<0.00046	<0.00057	<0.00047	<0.00045	<0.041	<0.00042	<0.075
	1,1-DICHLOROETHENE	mg/kg							<0.00054	<0.00049	<0.00063	<0.0005	<0.1	<0.00056	<0.00068	<0.00056	<0.00054	<0.049	<0.0005	<0.09
	1,1-DICHLOROPROPENE	mg/kg							<0.00036	<0.00032	<0.00042	<0.00033	<0.082	<0.00037	<0.00045	<0.00038	<0.00036	<0.04	<0.00033	<0.073
	1,2,3-TRICHLOROBENZENE	mg/kg							<0.00089	0.00086	<0.001	<0.00083	<0.12	0.0049	0.0096	0.0019	0.0041	<0.059	0.0018	<0.11
	1,2,3-TRICHLOROPROPANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.049	<0.00083	<0.09
	1,2,4-TRICHLOROBENZENE	mg/kg							<0.00089	0.016	<0.001	0.00085	<0.11	0.055	0.16	0.053	0.069	<0.052	0.02	0.12
	1,2,4-TRIMETHYLBENZENE	mg/kg							<0.0007	<0.00063	<0.00082	<0.00065	<0.069	<0.00072	<0.00088	<0.00073	<0.0007	<0.034	<0.00065	<0.062
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg							<0.0013	<0.0012	<0.0016	<0.0012	<0.12	<0.0014	<0.0017	<0.0014	<0.0013	<0.06	<0.0012	<0.11
	1,2-DIBROMOETHANE	mg/kg							<0.00071	<0.00065	<0.00084	<0.00067	<0.084	<0.00074	<0.0009	<0.00075	<0.00072	<0.041	<0.00067	<0.075
	1,2-DICHLOROBENZENE	mg/kg							<0.00085	<0.00077	<0.00099	<0.00079	<0.067	<0.00088	<0.0011	<0.00089	0.005	0.051	0.0091	0.36
	1,2-DICHLOROETHANE	mg/kg							<0.00071	<0.00065	<0.00084	<0.00067	<0.086	<0.00074	<0.0009	<0.00075	<0.00072	<0.042	<0.00067	<0.077UJ
	1,2-DICHLOROPROPANE	mg/kg							<0.00071	<0.00065	<0.00084	<0.00067	<0.073	<0.00074	<0.0009	<0.00075	<0.00072	<0.036	<0.00067	<0.065
	1,3,5-TRICHLOROBENZENE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	1,3,5-TRIMETHYLBENZENE	mg/kg							<0.00056	<0.00051	<0.00066	<0.00052	<0.063	<0.00058	<0.00071	<0.00059	<0.00056	<0.031	<0.00052	<0.056
	1,3-DICHLOROBENZENE	mg/kg							<0.00075	<0.00068	<0.00088	<0.0007	<0.065	<0.00078	<0.00095	<0.00079	0.00097	0.17	0.0012	0.062
	1,3-DICHLOROPROPANE	mg/kg							<0.00056	<0.00051	<0.00066	<0.00052	<0.075	<0.00058	<0.00071	<0.00059	<0.00056	<0.037	<0.00052	<0.067
	1,4-DICHLOROBENZENE	mg/kg							<0.00084	<0.00076	<0.00098	<0.00078	<0.071	<0.00087	0.0019	0.0018	0.0094	0.17	0.024	1.4
	2,2,3-TRIMETHYLBUTANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	2,2-DICHLOROPROPANE	mg/kg							<0.00054	<0.00049	<0.00063	<0.0005	<0.056	<0.00056	<0.00068	<0.00056	<0.00054	<0.028	<0.0005	<0.05UJ
	2,2-DIMETHYLPENTANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	2,3-DIMETHYLPENTANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	2,4-DIMETHYLPENTANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	2-BUTANONE	mg/kg							<0.0054	<0.0049	<0.0063	0.005	<1.5	<0.0056	<0.0068	<0.0056	<0.0054	<0.73	0.0061	<1.3
	2-CHLOROTOLUENE	mg/kg							<0.00078	<0.00071	<0.00091	<0.00072	<0.067	<0.00081	<0.00098	<0.00082	<0.00078	<0.033	<0.00072	<0.06
	2-HEXANONE	mg/kg							<0.0081	<0.0074	<0.0095	<0.0076	<0.21	<0.0084	<0.01	<0.0086	<0.0081	<0.1	<0.0076	<0.19
	2-METHYLHEXANE	mg/kg							<0.00089	<0.00081	<0.001	0.0036	<0.1	<0.00093	<0.0011	<0.00094	0.00097	0.066	0.0049	0.18
	3,3-DIMETHYLPENTANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	3-ETHYLPENTANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	0.00095	<0.093

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	TP-49 TP-49-0.0 0-0.25 8/15/2007	TP-49 TP-49-1.0 1-1.25 8/15/2007	TP-58 TP-58-0.0 0-0.25 8/15/2007	TP-58 TP-58-1.0 1-1.25 8/15/2007	TP-61 TP-61-0.0 0-0.25 8/15/2007	TP-61 TP-61-1.0 1-1.25 8/15/2007	SB-EC-88 SB-EC-88-2.0 2-2.5 11/6/2009	SB-EC-88 SB-EC-88-5.0 5-5.5 11/6/2009	SB-EC-88 SB-EC-88-10.0 10-10.5 11/6/2009	SB-EC-88 SB-EC-88-15.0 15-15.5 11/6/2009	SB-EC-88 SB-EC-88-20.0 19.5-20 11/6/2009	SB-EC-99 SB-EC-99-2.0 2-2.5 11/11/2009	SB-EC-99 SB-EC-99-3.0 3-3.5 11/11/2009	SB-EC-99 SB-EC-99-5.0 5-5.5 11/11/2009	SB-EC-99 SB-EC-99-10.0 10-10.5 11/11/2009	SB-EC-99 SB-EC-99-15.0 15-15.5 11/11/2009	SB-EC-99 SB-EC-99-20.0 19.5-20 11/11/2009	SB-EC-99 SB-EC-99-25.0 25-25.5 11/11/2009
VOC	3-METHYLHEXANE	mg/kg							<0.00089	<0.00081	0.0011	0.0044	<0.1	<0.00093	0.0014	<0.00094	0.0011	0.08	0.0069	<0.093
[EPA 8260B]	4-CHLOROTOLUENE	mg/kg							<0.00066	<0.0006	<0.00077	<0.00062	<0.067	<0.00069	<0.00084	<0.0007	<0.00066	<0.033	<0.00062	<0.06
	4-METHYL-2-PENTANONE	mg/kg							<0.004	<0.0036	<0.0047	<0.0038	<0.82	<0.0042	<0.0051	<0.0042	<0.004	<0.4	<0.0037	<0.73
	ACETONE	mg/kg							<0.0071	0.0074	0.016	0.034	<2.3	<0.0074	0.012	<0.0075	0.037	<1.1	0.033	<2.1
	BENZENE	mg/kg							<0.00045	0.00076	0.058	0.13	1	<0.00046	<0.00057	0.002	0.014	2.4	1.5	30
	BROMOBENZENE	mg/kg							<0.00075	<0.00068	<0.00088	<0.0007	<0.071	<0.00078	<0.00095	<0.00079	<0.00075	<0.035	<0.0007	<0.064
	BROMOCHLOROMETHANE	mg/kg							<0.0008	<0.00073	<0.00094	<0.00075	<0.1	<0.00083	<0.001	<0.00085	<0.00081	<0.051	<0.00075	<0.093
	BROMODICHLOROMETHANE	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.065	<0.00046	<0.00057	<0.00047	<0.00045	<0.032	<0.00042	<0.058UJ
	BROMOFORM	mg/kg							<0.00071UJ	<0.00065UJ	<0.00084UJ	<0.00067	<0.082	<0.00074	<0.0009	<0.00075	<0.00072	<0.04	<0.00067	<0.073
	BROMOMETHANE	mg/kg							<0.00082	<0.00075	<0.00096	<0.00077	<0.094	<0.00085	<0.001	<0.00087	<0.00082	<0.046	<0.00077	<0.084UJ
	CARBON DISULFIDE	mg/kg							<0.00087	<0.00079	<0.001	<0.00081	<0.12	<0.0009	0.0018	<0.00091	0.0052	<0.058	0.018	2.7
	CARBON TETRACHLORIDE	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.059	<0.00046	<0.00057	<0.00047	<0.00045	<0.029	<0.00042	<0.052UJ
	CHLOROBENZENE	mg/kg							<0.00046	0.00089	0.0079	0.018	0.15	<0.00048	0.0011	0.0012	0.11	4.7	3.7	33
	CHLOROETHANE	mg/kg							<0.0013	<0.0012	<0.0016	<0.0012	<0.094	<0.0014	<0.0017	<0.0014	0.0016	<0.046	0.0025	<0.084
	CHLOROFORM	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.092	<0.00046	<0.00057	<0.00047	<0.00045	<0.045	<0.00042	<0.082UJ
	CHLOROMETHANE	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.1	<0.00093	<0.0011	<0.00094	<0.00089	<0.051	<0.00083	<0.093
	CIS-1,2-DICHLOROETHENE	mg/kg							<0.00074	<0.00067	<0.00087	<0.00069	<0.1	<0.00077	<0.00094	<0.00078	<0.00074	<0.049	<0.00069	<0.09
	CIS-1,3-DICHLOROPROPENE	mg/kg							<0.00039	<0.00036	<0.00046	<0.00037	<0.075	<0.00041	<0.0005	<0.00041	<0.00039	<0.037	<0.00037	<0.067
	DIBROMOCHLOROMETHANE	mg/kg							<0.00062	<0.00057	<0.00073	<0.00058	<0.056	<0.00065	<0.00079	<0.00066	<0.00063	<0.028	<0.00058	<0.05
	DIBROMOMETHANE	mg/kg							<0.0008	<0.00073	<0.00094	<0.00075	<0.088	<0.00083	<0.001	<0.00085	<0.00081	<0.043	<0.00075	<0.079
	DICHLORODIFLUOROMETHANE	mg/kg							<0.0013	<0.0012	<0.0016	<0.0012	<0.13	<0.0014	<0.0017	<0.0014	<0.0013	<0.062	<0.0012	<0.11UJ
	DIMETHYL DISULFIDE	mg/kg							<0.00089	0.0087	0.1	0.33	0.79	<0.00093	<0.0011	0.0024	0.0058	0.27	0.069	1.2
	ETHYLBENZENE	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.056	<0.00046	<0.00057	<0.00047	<0.00045	<0.028	<0.00042	<0.05
	HEXACHLOROBUTADIENE	mg/kg							<0.00071	<0.00065	<0.00084	<0.00067	<0.082	<0.00074	<0.0009	<0.00075	<0.00072	<0.04	<0.00067	<0.073UJ
	ISOPROPYLBENZENE	mg/kg																		
	M,P-XYLENE	mg/kg							<0.00071	<0.00065	<0.00084	<0.00067	<0.11	<0.00074	<0.0009	<0.00075	<0.00072	<0.054	0.00083	<0.099
	METHYLENE CHLORIDE	mg/kg							<0.0058	<0.0053	<0.0068	<0.0054	<0.9	<0.006	<0.0074	<0.0061	<0.0058	<0.44	<0.0054	<0.8
	METHYL-TERT-BUTYL ETHER	mg/kg							<0.00089	<0.00081	<0.001	<0.00083	<0.13	<0.00093	<0.0011	<0.00094	<0.00089	<0.063	<0.00083	<0.12
	NAPHTHALENE	mg/kg							<0.00098	<0.00089	<0.0012	<0.00092	<0.17	<0.001	<0.0012	<0.001	<0.00098	<0.083	<0.00092	<0.15
	N-BUTYLBENZENE	mg/kg							<0.00064	<0.00058	<0.00075	<0.0006	<0.071	<0.00067	<0.00081	<0.00068	<0.00064	<0.035	<0.0006	<0.064
	N-HEPTANE	mg/kg							<0.00089	<0.00081	<0.001	0.0031	<0.1	<0.00093	<0.0011	<0.00094	0.0011	0.11	0.0067	0.28
	NONANAL	mg/kg							<0.0035UJ	<0.0032UJ	<0.0041UJ	<0.0032UJ	<0.82UJ	<0.0036	<0.0044	<0.0037	<0.0035	<0.4	<0.0032	<0.73
	N-PROPYLBENZENE	mg/kg							<0.00054	<0.00049	<0.00064	<0.00051	<0.075	<0.00056	<0.00069	<0.00057	<0.00055	<0.037	<0.00051	<0.067
	O-XYLENE	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.059	<0.00046	<0.00057	<0.00047	<0.00045	<0.029	<0.00042	<0.052
	P-ISOPROPYL TOLUENE	mg/kg							<0.00064	<0.00058	<0.00075	<0.0006	<0.1	<0.00067	<0.00081	<0.00068	<0.00064	<0.049	<0.0006	<0.09
	SEC-BUTYLBENZENE	mg/kg							<0.0006	<0.00054	<0.0007	<0.00056	<0.065	<0.00062	<0.00076	<0.00063	<0.0006	<0.032	<0.00056	<0.058
	STYRENE	mg/kg							<0.00052	<0.00047	<0.00061	<0.00048	<0.063	<0.00054	<0.00066	<0.00055	<0.00052	<0.031	<0.00048	<0.056
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg							<0.00055	<0.0005	<0.00065	<0.00052	<0.056	<0.00057	<0.0007	<0.00058	<0.00055	<0.028	<0.00052	<0.05
	TETRACHLOROETHENE	mg/kg							<0.00044	<0.0004	<0.00051	<0.00041	<0.092	<0.00045	<0.00055	<0.00046	<0.00044	<0.045	<0.00041	<0.082
	TOLUENE	mg/kg							<0.00045	<0.00041	<0.00052	0.00058	<0.069	<0.00046	<0.00057	<0.00047	0.00091	0.044	0.0048	0.21
	TRANS-1,2-DICHLOROETHENE	mg/kg							<0.00062	<0.00057	<0.00073	<0.00058	<0.1	<0.00065	<0.00079	<0.00066	<0.00063	<0.051	<0.00058	<0.093
	TRANS-1,3-DICHLOROPROPENE	mg/kg							<0.00054	<0.00049	<0.00064	<0.00051	<0.073	<0.00056	<0.00069	<0.00057	<0.00055	<0.036	<0.00051	<0.065
	TRICHLOROETHENE	mg/kg							<0.00045	<0.00041	<0.00052	<0.00042	<0.079	<0.00046	<0.00057	<0.00047	<0.00045	<0.039	<0.00042	<0.071
	TRICHLOROFLUOROMETHANE	mg/kg							<0.00048	<0.00044	<0.00056	<0.00045	<0.12	<0.0005	<0.00061	<0.00051	<0.00048	<0.059	<0.00045	<0.11UJ
	VINYL CHLORIDE	mg/kg							<0.00081	<0.00074	<0.00095	<0.00076	<0.14	<0.00084	<0.001	<0.00086	<0.00081	<0.066UJ	<0.00076	<0.12UJ

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-99 SB-EC-99-30.0 30-30.5 11/11/2009	SB-EC-99 SB-EC-99-35.0 34.5-35 11/11/2009	WC-01 WC-01-5.0 5-7 2/9/2009	WC-02 WC-02-5.0 5-7 2/9/2009	EC-14 EC-14-0.5 0-0.5 2/11/2009	EC-14 EC-14-10 9.5-10 2/11/2009	EC-14 EC-14-20 19.5-20 2/11/2009	EC-14 EC-14-30 29.5-30 2/11/2009	EC-14 EC-14-41 40.5-41 2/12/2009	SB-EC-104 SB-EC-104-2.0 2-2.5 11/13/2009	SB-EC-104 SB-EC-104-3.0 3-3.5 11/13/2009	SB-EC-104 SB-EC-104-5.0 5-5.5 11/13/2009	SB-EC-104 SB-EC-104-10.0 10-10.5 11/13/2009	SB-EC-104 SB-EC-104-15.0 15-15.5 11/13/2009	SB-EC-104 SB-EC-104-20.0 20-20.5 11/13/2009	SB-EC-104 SB-EC-104-25.0 25-25.5 11/13/2009	SB-EC-104 SB-EC-104-30.0 30-30.5 11/13/2009	SB-EC-104 SB-EC-104-35.0 34.5-35 11/13/2009
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																			
	CHLOROACETALDEHYDE	mg/kg																			
	FORMALDEHYDE	mg/kg																			
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT																			
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT																			
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT																			
	SHORT AMPHIBOLE STRUCTURES	COUNT																			
	SHORT ASBESTOS STRUCTURES	COUNT																			
	SHORT CHRYSOTILE STRUCTURES	COUNT																			
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT																			
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT																			
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT																			
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg			1000	9.3	8.6														
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg			180	13	12														
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg			53	<6.5	4.1														
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg			85	9.7	5.2														
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg			<9	<6.7	0.47														
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg			44	<5.6	3.6														
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg			31	<6.4	1.6														
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg			9.4	<6.6	<0.77														
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg			14	<6.2	<0.79														
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg			22	<7	4.1														
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg			<22	<15	<0.34														
	2,3,7,8-TCDD	ng/kg			<730	<470	0.63														
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg			39.30	1.98	4.51														
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg			12	<6	1.2														
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg			14	<7.4	3.3														
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg			<5.5	7.8	13														
	HEPTACHLORINATED DIBENZOFURAN	ng/kg			400	13	25														
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg			2000	9.3	16														
	HEXACHLORINATED DIBENZOFURAN	ng/kg			320	9.7	38														
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg			120	<6.4	7.8														
	OCTACHLORINATED DIBENZOFURAN	ng/kg			180	20	26														
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg			8400	16	26														
	PENTACHLORINATED DIBENZOFURAN	ng/kg			100	21	62														
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg			160	<15	4.9														
	TETRACHLORINATED DIBENZOFURAN	ng/kg			25	41	87														
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg			<17000	<11000	63														
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g			13	3.7															
	Fraction organic Carbon	g/g			0.0055	0.0014															
	Percent Moisture	%			21.8	5	4.7														
	PH	pH Units			8.33	7.61															
	TOTAL ORGANIC CARBON	mg/kg			5500	1400															
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																			
	EFH (C8 - C40)	mg/kg																			
	ETHANOL	mg/kg																			
	METHANOL	mg/kg																			
	ORO (C25-C40)	mg/kg																			
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																			
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																			
	CHLORIDE	mg/kg			2300	920	<5	260	720	820	830										
	CYANIDE	mg/kg			<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5										
	FLUORIDE	mg/kg																			
	IODIDE	mg/kg																			
	NITRATE (AS N)	mg/kg			5.6	5	0.65	2.4	<1.1	<1.1	<1.1										
	PH	pH Units			8.34	8.05	9.3	8.67	7.57	7.77	7.77										
	PHOSPHATE	mg/kg			45000	5000	1700	1400	1500	1700	1400										
	PHOSPHORUS, TOTAL (AS P)	mg/kg																			
	SULFATE	mg/kg			7500	3100	17J-	240J-	140J-	180J-	1700J-										
	TOTAL CARBON	mg/kg																			
	TOTAL INORGANIC CARBON	mg/kg																			
	TOTAL ORGANIC CARBON	mg/Kg																			

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Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

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Group and Method	Analyte	Units	SB-EC-99 SB-EC-99-30.0 30-30.5 11/11/2009	SB-EC-99 SB-EC-99-35.0 34.5-35 11/11/2009	WC-01 WC-01-5.0 5-7 2/9/2009	WC-02 WC-02-5.0 5-7 2/9/2009	EC-14 EC-14-0.5 0-0.5 2/11/2009	EC-14 EC-14-10 9.5-10 2/11/2009	EC-14 EC-14-20 19.5-20 2/11/2009	EC-14 EC-14-30 29.5-30 2/11/2009	EC-14 EC-14-41 40.5-41 2/12/2009	SB-EC-104 SB-EC-104-2.0 2-2.5 11/13/2009	SB-EC-104 SB-EC-104-3.0 3-3.5 11/13/2009	SB-EC-104 SB-EC-104-5.0 5-5.5 11/13/2009	SB-EC-104 SB-EC-104-10.0 10-10.5 11/13/2009	SB-EC-104 SB-EC-104-15.0 15-15.5 11/13/2009	SB-EC-104 SB-EC-104-20.0 20-20.5 11/13/2009	SB-EC-104 SB-EC-104-25.0 25-25.5 11/13/2009	SB-EC-104 SB-EC-104-30.0 30-30.5 11/13/2009	SB-EC-104 SB-EC-104-35.0 34.5-35 11/13/2009
METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg	8300		8200	9100	6600	10000	10000	8200	9700			640		5000			5100	
	ANTIMONY	mg/kg	<0.014		<0.77U	<0.27U	<0.18U	<0.24U	<0.18U	<0.2U	<0.12U			0.14UJ		<0.014UJ			0.016UJ	
	ARSENIC	mg/kg	3.3	3	4.4	2.5	1.3	2.1	2.2	2.1	2.5	3.2	3.3	0.54	2.8	2.7	4.1	3.4	4.7	3.5
	BARIUM	mg/kg	130		150J-	190J-	150J-	170J-	150J-	150J-	170J-			17		100			130	
	BERYLLIUM	mg/kg	0.31		0.5	0.57	0.41	0.51	0.61	0.48	0.52			0.07		0.27			0.44	
	BORON	mg/kg			<10	<5														
	CADMIUM	mg/kg	0.36		<0.5	0.079	0.065	0.063	<0.5	<0.5	<0.5			0.085		0.36			0.45	
	CALCIUM	mg/kg			24000J	21000J	31000	37000	26000	28000	26000									
	CHROMIUM	mg/kg	8.5		93	16	8.8	21	18	18	16			8		3.9			10	
	COBALT	mg/kg	4.2		7.2J-	6.8J-	5.9	8.3	7.9	6.4	6.5			0.87		3			4.7	
	COPPER	mg/kg	9.3		25	15	14	16	18	15	15			2		6.5			9.4	
	HEXAVALENT CHROMIUM	mg/kg			<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2									
	IRON	mg/kg			36000	16000	12000	21000	20000	16000	17000									
	LEAD	mg/kg	3.7		25	8.7	5.8	7.9	6.8	6.2	6.1			1.4		4			4.4	
	MAGNESIUM	mg/kg			6100	7200	7300	9000	9600	7600	8100									
	MANGANESE	mg/kg	160		360	380	290	330	280	250	250			140		130			200	
	MERCURY	mg/kg			<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02									
	MOLYBDENUM	mg/kg	0.39		1.6	1.3								2.3		0.18			0.68	
	NICKEL	mg/kg	14		32J-	14J-	12J-	15J-	16J-	13J-	12J-			11		7.9			16	
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg			11000	2000	1200	800	910	830	850									
	POTASSIUM	mg/kg			2000	3200	4600	4600	2900	3000	3300									
	Potassium	mg/kg																		
	SELENIUM	mg/kg	0.75		<1	<1	<1	<1	<1UJ	<1UJ	<1UJ			0.17		0.22			<0.13	
	SILVER	mg/kg	0.049		<0.5UJ	<0.5UJ	0.56J-	0.24J-	0.43J-	0.95J-	0.2J-			<0.02UJ		0.044J-			0.044J-	
	SODIUM	mg/kg			14000	3800	590J-	1300J-	1400J-	1200J-	1300J-									
	THALLIUM	mg/kg	0.069U		0.16	0.16	<0.5	0.14	0.2	0.2	0.13			0.009U		0.063U			0.095U	
	TIN	mg/kg			<20	<10	<10	<10	<10	<10	<10									
	TITANIUM	mg/kg			700	1200	1200J	1800J	1300	1200	1500									
	URANIUM	mg/kg	0.74											0.15		0.54			1.1	
	VANADIUM	mg/kg	16		31J	51J	44J-	81J-	60	51	55			4.5		12			16	
	ZINC	mg/kg	17		26J-	34J-	26J-	37J-	33J-	28J-	31J-			3.4		15			20	
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	2,4'-DDE	mg/kg	0.042	0.014J	<0.5	0.057	<0.015	<0.15	<0.005	<0.005	<0.005	<0.075	<0.0075	<0.0015	<0.075	<0.03	<0.03	<0.075	<0.075	<0.03
	2,4'-DDT	mg/kg																		
	4,4'-DDD	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	4,4'-DDE	mg/kg	0.11	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	4,4'-DDT	mg/kg	0.032	<0.0045	3300	16	<0.015UJ	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.45	<0.045	310	460	<0.22
	ALDRIN	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	ALPHA-BHC	mg/kg	0.035	0.26	0.71J+	0.53J+	0.014	3.1	<0.004U	0.21	<0.005	79	0.88	2	51	5.7	10	25	110	21
	BETA-BHC	mg/kg	75	1.8	0.51	3.4	0.45	0.45	<0.005	0.03	<0.005	13	0.37	0.48	3	0.52	1.4	3.1	10	3.1
	CHLORDANE	mg/kg	<0.075	<0.03	<5	<0.5	<0.15	<1.5	<0.05	<0.05	<0.05	<0.75	<0.075	<0.015	<0.75	<0.3	<0.3	<0.75	<0.75	<0.3
	DELTA-BHC	mg/kg	0.014	<0.0045	<1	<0.1	<0.03	<0.29	<0.01	0.0022	<0.01	<0.11	<0.011	0.06	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	DIELDRIN	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	ENDOSULFAN I	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	ENDOSULFAN II	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	ENDOSULFAN SULFATE	mg/kg	<0.015	<0.006	<1	<0.1	<0.03	<0.29	<0.01	<0.01	<0.01	<0.15	<0.015	<0.003	<0.15	<0.06	<0.06	<0.15	<0.15	<0.06
	ENDRIN	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	ENDRIN ALDEHYDE	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	ENDRIN KETONE	mg/kg	<0.015	<0.006	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.15	<0.015	<0.003	<0.15	<0.06	<0.06	<0.15	<0.15	<0.06
	GAMMA-BHC (LINDANE)	mg/kg	0.015	<0.0045	<0.5	<0.05	<0.015	0.058	<0.005	0.0057	<0.005	1.6	0.024	0.13	0.5	0.12	0.25J	0.69	1.9	0.45
	HEPTACHLOR	mg/kg	<0.015	<0.006	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.15	<0.015	<0.003	<0.15	<0.06	<0.06	<0.15	<0.15	<0.06
	HEPTACHLOR EPOXIDE	mg/kg	<0.015	<0.006	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.15	<0.015	<0.003	<0.15	<0.06	<0.06	<0.15	<0.15	<0.06
	METHOXYCHLOR	mg/kg	<0.011	<0.0045	<0.5	<0.05	<0.015	<0.15	<0.005	<0.005	<0.005	<0.11	<0.011	<0.0022	<0.11	<0.045	<0.045	<0.11	<0.11	<0.045
	TOXAPHENE	mg/kg	<0.38	<0.15			<0.6UJ	<5.9UJ	<0.2UJ	<0.2UJ	<0.2UJ	<3.8	<0.38	<0.075	<3.8	<1.5	<1.5	<3.8	<3.8	<1.5

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[(1)]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-99 SB-EC-99-30.0 30-30.5 11/11/2009	SB-EC-99 SB-EC-99-35.0 34.5-35 11/11/2009	WC-01 WC-01-5.0 5-7 2/9/2009	WC-02 WC-02-5.0 5-7 2/9/2009	EC-14 EC-14-0.5 0-0.5 2/11/2009	EC-14 EC-14-10 9.5-10 2/11/2009	EC-14 EC-14-20 19.5-20 2/11/2009	EC-14 EC-14-30 29.5-30 2/11/2009	EC-14 EC-14-41 40.5-41 2/12/2009	SB-EC-104 SB-EC-104-2.0 2-2.5 11/13/2009	SB-EC-104 SB-EC-104-3.0 3-3.5 11/13/2009	SB-EC-104 SB-EC-104-5.0 5-5.5 11/13/2009	SB-EC-104 SB-EC-104-10.0 10-10.5 11/13/2009	SB-EC-104 SB-EC-104-15.0 15-15.5 11/13/2009	SB-EC-104 SB-EC-104-20.0 20-20.5 11/13/2009	SB-EC-104 SB-EC-104-25.0 25-25.5 11/13/2009	SB-EC-104 SB-EC-104-30.0 30-30.5 11/13/2009	SB-EC-104 SB-EC-104-35.0 34.5-35 11/13/2009
OP PEST	AZINPHOS-METHYL	mg/kg			<1300	<0.13UJ	<0.013	<0.013	<0.013	<0.013	<0.013									
[EPA 8141A]	BOLSTAR	mg/kg			<1300	<0.13UJ	<0.013	<0.013	<0.013UJ	<0.013UJ	<0.013UJ									
	CARBOPHENOTHION (TRITHION)	mg/kg			9900	2	0.3J+	<0.033	<0.033	<0.033	<0.033									
	CHLORPYRIFOS	mg/kg			<2000	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02									
	COUMAPHOS	mg/kg			<1300	<0.13	<0.013	<0.013	<0.013	<0.013	<0.013									
	DEMETON	mg/kg			<3900	<0.39	<0.039	<0.039	<0.039	<0.039	<0.039									
	DEMETON-O	mg/kg			<3900	<0.39	<0.039	<0.039	<0.039	<0.039	<0.039									
	DIAZINON	mg/kg			<2200	<0.22	<0.022	<0.022	<0.022	<0.022	<0.022									
	DICHLORVOS	mg/kg			<2300	<0.23	<0.023	<0.023	<0.023	<0.023	<0.023									
	DIMETHOATE	mg/kg			<2200	<0.22	<0.022	<0.022	<0.022	<0.022	<0.022									
	DISULFOTON	mg/kg			<4800UJ	<0.48UJ	<0.048UJ	<0.048UJ	<0.048UJ	<0.048UJ	<0.048UJ									
	EPN	mg/kg			<1300	<0.13UJ	<0.013	<0.013	<0.013	<0.013	<0.013									
	ETHION	mg/kg																		
	ETHOPROP	mg/kg			<1500	<0.15	<0.015	<0.015	<0.015	<0.015	<0.015									
	ETHYL PARATHION	mg/kg			<1800	<0.18	<0.018	<0.018	<0.018	<0.018	<0.018									
	FAMPHUR	mg/kg			<1300	<0.13UJ	<0.013	<0.013	<0.013UJ	<0.013UJ	<0.013UJ									
	FENSULFOTHION	mg/kg			<2500	<0.25UJ	<0.025	<0.025	<0.025UJ	<0.025UJ	<0.025UJ									
	FENTHION	mg/kg			<3300	<0.33UJ	<0.033UJ	<0.033UJ	<0.033UJ	<0.033UJ	<0.033UJ									
	MALATHION	mg/kg			<1500	<0.15	<0.015	<0.015	<0.015	<0.015	<0.015									
	MERPHOS	mg/kg			<3000	<0.3UJ	<0.03	<0.03	<0.03UJ	<0.03UJ	<0.03UJ									
	METHYL CARBOPHENOTHION	mg/kg			<3300UJ	<0.33UJ	0.034J-	<0.033UJ	<0.033UJ	<0.033UJ	<0.033UJ									
	METHYL PARATHION	mg/kg			<2000	<0.2UJ	<0.02	<0.02	<0.02	<0.02	<0.02									
	MEVINPHOS	mg/kg			<1500UJ	<0.15UJ	<0.015UJ	<0.015UJ	<0.015UJ	<0.015UJ	<0.015UJ									
	NALED	mg/kg			<7000UJ	<0.7UJ	<0.07UJ	<0.07UJ	<0.07UJ	<0.07UJ	<0.07UJ									
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg			<3900	<0.39UJ	<0.039UJ	<0.039UJ	<0.039UJ	<0.039UJ	<0.039UJ									
	PHORATE	mg/kg			<2000	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02									
	PHOSMET	mg/kg			<6700UJ	<0.67UJ	<0.067UJ	<0.067UJ	<0.067UJ	<0.067UJ	<0.067UJ									
	RONNEL	mg/kg			<4600	<0.46	<0.046	<0.046	<0.046UJ	<0.046UJ	<0.046UJ									
	STIROPHOS	mg/kg			<1500	<0.15	<0.015	<0.015	<0.015	<0.015	<0.015									
	SULFOTEPP	mg/kg			<2000	<0.2	<0.02	<0.02	<0.02	<0.02	<0.02									
	TETRACHLORVINPHOS	mg/kg																		
	THIONAZIN	mg/kg			<1800	<0.18	<0.018	<0.018	<0.018	<0.018	<0.018									
	TOKUTHION	mg/kg			<2000	<0.2	<0.02	<0.02	<0.02UJ	<0.02UJ	<0.02UJ									
	TRICHLORNATE	mg/kg			<2000	<0.2	<0.02	<0.02	<0.02UJ	<0.02UJ	<0.02UJ									
ORGACIDS	4-CHLOROBENZENESULFONIC ACID	mg/Kg			320	<0.5	<0.5	<0.5	51	32	28									
[HPLC]	BENZENESULFONIC ACID	mg/Kg			0.6	<0.5	<0.5	<0.5	3.4	2.1	2.6									
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg			2.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5									
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg			17	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5									
	PHTHALIC ACID	mg/Kg			0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5									
PCB	AROCLOR-1016	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
[EPA 8082]	AROCLOR-1221	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
	AROCLOR-1232	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
	AROCLOR-1242	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
	AROCLOR-1248	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
	AROCLOR-1254	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
	AROCLOR-1260	mg/kg			<5	<5	<0.15	<1.5	<0.05	<0.05	<0.05									
SVOC	1,1'-SULFONYBIS BENZENE	mg/kg			<6.6	<6.6	<6.6	<6.6	<50	<50	<50									
[EPA 8270C/M]	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg			<1.7	<1.7	<1.7	<1.7	<13	<13	<13									
	1,2,4,5-TETRACHLOROBENZENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	1,2,4-TRICHLOROBENZENE	mg/kg			0.27	<0.33	<0.33	<0.33	<2.5	0.82	1.2									
	1,2-DICHLOROBENZENE	mg/kg			0.13	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	1,3-DICHLOROBENZENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	1,4-DICHLOROBENZENE	mg/kg			0.21	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg			0.6	1.9	<0.33	<0.33	<2.5	<2.5	<2.5									
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																		

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Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-99 SB-EC-99-30.0 30-30.5 11/11/2009	SB-EC-99 SB-EC-99-35.0 34.5-35 11/11/2009	WC-01 WC-01-5.0 5-7 2/9/2009	WC-02 WC-02-5.0 5-7 2/9/2009	EC-14 EC-14-0.5 0-0.5 2/11/2009	EC-14 EC-14-10 9.5-10 2/11/2009	EC-14 EC-14-20 19.5-20 2/11/2009	EC-14 EC-14-30 29.5-30 2/11/2009	EC-14 EC-14-41 40.5-41 2/12/2009	SB-EC-104 SB-EC-104-2.0 2-2.5 11/13/2009	SB-EC-104 SB-EC-104-3.0 3-3.5 11/13/2009	SB-EC-104 SB-EC-104-5.0 5-5.5 11/13/2009	SB-EC-104 SB-EC-104-10.0 10-10.5 11/13/2009	SB-EC-104 SB-EC-104-15.0 15-15.5 11/13/2009	SB-EC-104 SB-EC-104-20.0 20-20.5 11/13/2009	SB-EC-104 SB-EC-104-25.0 25-25.5 11/13/2009	SB-EC-104 SB-EC-104-30.0 30-30.5 11/13/2009	SB-EC-104 SB-EC-104-35.0 34.5-35 11/13/2009
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2,4-DICHLOROPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2,4-DIMETHYLPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2,4-DINITROPHENOL	mg/kg			<0.66	<0.66	<0.66	<0.66	<5	<5	<5									
	2,4-DINITROTOLUENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2,6-DINITROTOLUENE	mg/kg																		
	2-CHLORONAPHTHALENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2-CHLOROPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																		
	2-METHYLNAPHTHALENE	mg/kg																		
	2-METHYLPHENOL	mg/kg																		
	2-NITROANILINE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	2-NITROPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	3,3'-DICHLOROBENZIDINE	mg/kg				<0.83	<0.83	<0.83	<6.2	<6.2	<6.2									
	3-HEXENE-2,5-DIONE	mg/kg																		
	3-NITROANILINE	mg/kg																		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																		
	4-BROMOPHENYL PHENYL ETHER	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	4-CHLORO-3-METHYLPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	4-CHLOROANILINE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	4-CHLOROBENZENETHIOL	mg/kg			150	8.7	<6.6	<6.6	<50	<50	<50									
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg			140	0.44	<0.33	<0.33	<2.5	0.72	0.92									
	4-CHLOROPHENYL PHENYL ETHER	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	4-METHYLPHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	4-NITROANILINE	mg/kg			<0.83	<0.83	<0.83	<0.83	<6.2	<6.2	<6.2									
	4-NITROPHENOL	mg/kg			<0.83	<0.83	<0.83	<0.83	<6.2	<6.2	<6.2									
	ACENAPHTHENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	ACENAPHTHYLENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	ANILINE	mg/kg																		
	ANTHRACENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	AZOBENZENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BENZO(A)ANTHRACENE	mg/kg				<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BENZO(A)PYRENE	mg/kg			<0.33UJ	<0.33	<0.33	<0.33	<2.5UJ	<2.5UJ	<2.5									
	BENZO(B)FLUORANTHENE	mg/kg			<0.33UJ	<0.33	<0.33	<0.33	<2.5UJ	<2.5UJ	<2.5									
	BENZO(GHI)PERYLENE	mg/kg			<0.33UJ	<0.33	<0.33	<0.33	<2.5UJ	<2.5UJ	<2.5									
	BENZO(K)FLUORANTHENE	mg/kg			<0.33UJ	<0.33	<0.33	<0.33	<2.5UJ	<2.5UJ	<2.5									
	BENZOIC ACID	mg/kg			<0.83	<0.83	<0.83	<0.83	<6.2	<6.2	<6.2									
	BENZOPHENONE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BENZYL ALCOHOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																		
	BIS(2-CHLOROETHYL)ETHER	mg/kg			<0.17	<0.17	<0.17	<0.17	<1.3	<1.3	<1.3									
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg				<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg			<0.33	14	<0.33	<0.33	<2.5	<2.5	<2.5									
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	BUTYL BENZYL PHTHALATE	mg/kg																		
	CHLORAL	mg/kg																		
	CHRYSENE	mg/kg				<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	DIBENZO(A,H)ANTHRACENE	mg/kg			<0.42UJ	<0.42	<0.42	<0.42	<3.2UJ	<3.2UJ	<3.2									
	DIBENZOFURAN	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	DICHLOROACETALDEHYDE	mg/kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg			35	4.6	<1.7	<1.7	<13	<13	<13									
	DIETHYL PHTHALATE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	DIMETHYL PHTHALATE	mg/kg			0.081	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	DIMETHYL SULFOXIDE	mg/kg																		
	DI-N-BUTYL PHTHALATE	mg/kg			<0.33	<0.33	0.094	<0.33	<2.5	<2.5	<2.5									
	DI-N-OCTYL PHTHALATE	mg/kg				<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-99 SB-EC-99-30.0 30-30.5 11/11/2009	SB-EC-99 SB-EC-99-35.0 34.5-35 11/11/2009	WC-01 WC-01-5.0 5-7 2/9/2009	WC-02 WC-02-5.0 5-7 2/9/2009	EC-14 EC-14-0.5 0-0.5 2/11/2009	EC-14 EC-14-10 9.5-10 2/11/2009	EC-14 EC-14-20 19.5-20 2/11/2009	EC-14 EC-14-30 29.5-30 2/11/2009	EC-14 EC-14-41 40.5-41 2/12/2009	SB-EC-104 SB-EC-104-2.0 2-2.5 11/13/2009	SB-EC-104 SB-EC-104-3.0 3-3.5 11/13/2009	SB-EC-104 SB-EC-104-5.0 5-5.5 11/13/2009	SB-EC-104 SB-EC-104-10.0 10-10.5 11/13/2009	SB-EC-104 SB-EC-104-15.0 15-15.5 11/13/2009	SB-EC-104 SB-EC-104-20.0 20-20.5 11/13/2009	SB-EC-104 SB-EC-104-25.0 25-25.5 11/13/2009	SB-EC-104 SB-EC-104-30.0 30-30.5 11/13/2009	SB-EC-104 SB-EC-104-35.0 34.5-35 11/13/2009
SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	FLUORENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg			<1.7	<1.7	<1.7	<1.7	<13	<13	<13									
	HEXACHLOROBENZENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	HEXACHLOROBUTADIENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	HEXACHLOROCYCLOPENTADIENE	mg/kg			<0.83	<0.83	<0.83	<0.83	<6.2	<6.2	<6.2									
	HEXACHLOROETHANE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	INDENO(1,2,3-CD)PYRENE	mg/kg			<0.33UJ	<0.33	<0.33	<0.33	<2.5UJ	<2.5UJ	<2.5									
	ISOPHORONE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	NAPHTHALENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg			<6.6	<6.6														
	NITROBENZENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	N-NITROSODIMETHYLAMINE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg			<0.25	<0.25	<0.25	<0.25	<1.9	<1.9	<1.9									
	N-NITROSODIPHENYLAMINE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg			<0.33	6.7	<0.33	<0.33	<2.5	<2.5	<2.5									
	PENTACHLOROBENZENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	PENTACHLOROPHENOL	mg/kg			<0.83	<0.83	<0.83	<0.83	<6.2	<6.2	<6.2									
	PHENANTHRENE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	PHENOL	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	PHENYL DISULFIDE	mg/kg			<0.33	<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg				<0.33	<0.33	<0.33	<2.5	<2.5	<2.5									
	PYRIDINE	mg/kg			<0.2	<0.2	<0.2	<0.2	<1.5	<1.5	<1.5									
	THIOPHENOL	mg/kg			<6.6	<6.6	<6.6	<6.6	<50	<50	<50									
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.039	<0.042	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.051	<0.00046	<0.046	<0.035	<0.042	<0.04	<0.046	<0.041	<0.039
	1,1,1-TRICHLOROETHANE	mg/kg	<0.07	<0.075	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.092	<0.00056	<0.083	<0.064	<0.077	<0.072	<0.084	<0.075	<0.07
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.1	<0.11	<0.096	<0.0021UJ	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.13	<0.00069	<0.12	<0.091	<0.11	<0.1	<0.12	<0.11	<0.099
	1,1,2-TRICHLOROETHANE	mg/kg	<0.098	<0.1	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.13	<0.0007	<0.12	<0.089	<0.11	<0.1	<0.12	<0.1	<0.097
	1,1-DICHLOROETHANE	mg/kg	<0.074	<0.079	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.097	<0.0004	<0.087	<0.067	<0.081	<0.076	<0.088	<0.079	<0.073
	1,1-DICHLOROETHENE	mg/kg	<0.089	<0.095	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.12UJ	<0.00048	<0.1UJ	<0.081UJ	<0.097UJ	<0.091UJ	<0.11UJ	<0.095UJ	<0.088UJ
	1,1-DICHLOROPROPENE	mg/kg	<0.072	<0.077	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.094	<0.00032	<0.085	<0.066	<0.079	<0.074	<0.086	<0.077	<0.072
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.11	<0.11	0.08	0.0054J	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.14UJ	0.0013	<0.13UJ	0.26J	0.29J	0.55J	2.2J	2.7J	2J
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.089	<0.095	<0.48	<0.011UJ	<0.0094UJ	<0.0084UJ	<0.0084	<0.0096	<0.0085	<0.12	<0.0008	<0.1	<0.081	<0.097	<0.091	<0.11	<0.095	<0.088
	1,2,4-TRICHLOROBENZENE	mg/kg	<0.094	<0.1	1.2	0.048J	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	0.47	0.018	0.53	1.6	3.7	5.6	20	30	22
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.061	<0.065	<0.096	<0.0021UJ	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.08	0.00086	<0.072	<0.055	<0.067	<0.063	<0.073	<0.065	<0.061
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.11	<0.12	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.14	<0.0012	<0.13	<0.099	<0.12	<0.11	<0.13	<0.12	<0.11
	1,2-DIBROMOETHANE	mg/kg	<0.074	<0.079	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.097	<0.00064	<0.087	<0.067	<0.081	<0.076	<0.088	<0.079	<0.073
	1,2-DICHLOROBENZENE	mg/kg	0.11	<0.063	0.25	0.0044J	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.077	0.0024	16	4	0.52	0.68	2.9	4.5	3.8
	1,2-DICHLOROETHANE	mg/kg	<0.076	<0.081	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.099	<0.00064	<0.09	<0.069	<0.083	<0.078	<0.091	<0.081	<0.075
	1,2-DICHLOROPROPANE	mg/kg	<0.065	<0.069	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.085	<0.00064	<0.076	<0.059	<0.071	<0.067	<0.077	<0.069	<0.064
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.092	<0.099	<0.19	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.055	<0.059	<0.096	<0.0021UJ	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.073	0.00053	<0.066	<0.05	<0.06	<0.057	<0.066	<0.059	<0.055
	1,3-DICHLOROBENZENE	mg/kg	<0.057	<0.061	<0.096	0.0028J	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.075	<0.00067	<0.068	<0.052	<0.062	0.07	0.29	0.44	0.37
	1,3-DICHLOROPROPANE	mg/kg	<0.066	<0.071	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.087	<0.0005	<0.079	<0.061	<0.073	<0.068	<0.079	<0.071	<0.066
	1,4-DICHLOROBENZENE	mg/kg	0.43	0.2	0.41	0.011J	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.082	0.0027	0.68	0.76	0.69	0.75	2.9	4.8	4.1
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.092	<0.099	<0.19	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	2,2-DICHLOROPROPANE	mg/kg	<0.05	<0.053	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.065	<0.00048	<0.059	<0.045	<0.054	<0.051	<0.06	<0.053	<0.05
	2,2-DIMETHYLPENTANE	mg/kg	<0.092	<0.099	<0.19	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	2,3-DIMETHYLPENTANE	mg/kg	<0.092	<0.099	<0.19	0.012	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	0.21	0.31	0.26
	2,4-DIMETHYLPENTANE	mg/kg	<0.092	<0.099	<0.19	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	2-BUTANONE	mg/kg	<1.3	<1.4	<0.96	0.0097	0.0058J	<0.0084UJ	<0.0084	<0.0096	<0.0085	<1.7	<0.0048	<1.6	<1.2	<1.5	<1.4	<1.6	<1.4	<1.3
	2-CHLOROTOLUENE	mg/kg	<0.059	<0.063	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.077	<0.0007	<0.07	<0.054	<0.065	<0.061	<0.071	<0.063	<0.059
	2-HEXANONE	mg/kg	<0.18	<0.2	<0.48	<0.011	<0.0094UJ	<0.0084UJ	<0.0084	<0.0096	<0.0085	<0.24	<0.0073	<0.22	<0.17	<0.2	<0.19	<0.22	<0.2	<0.18
	2-METHYLHEXANE	mg/kg	0.21	0.31	0.14J-	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017UJ	<0.0019UJ	<0.0017UJ	<0.12	<0.0008	<0.11	<0.084	0.2	0.16	0.54	0.78	0.74
	3,3-DIMETHYLPENTANE	mg/kg	<0.092	<0.099	<0.19	0.0015	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	3-ETHYLPENTANE	mg/kg	<0.092	<0.099	<0.19	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092

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Group and Method	Analyte	Units	SB-EC-99 SB-EC-99-30.0 30-30.5 11/11/2009	SB-EC-99 SB-EC-99-35.0 34.5-35 11/11/2009	WC-01 WC-01-5.0 5-7 2/9/2009	WC-02 WC-02-5.0 5-7 2/9/2009	EC-14 EC-14-0.5 0-0.5 2/11/2009	EC-14 EC-14-10 9.5-10 2/11/2009	EC-14 EC-14-20 19.5-20 2/11/2009	EC-14 EC-14-30 29.5-30 2/11/2009	EC-14 EC-14-41 40.5-41 2/12/2009	SB-EC-104 SB-EC-104-2.0 2-2.5 11/13/2009	SB-EC-104 SB-EC-104-3.0 3-3.5 11/13/2009	SB-EC-104 SB-EC-104-5.0 5-5.5 11/13/2009	SB-EC-104 SB-EC-104-10.0 10-10.5 11/13/2009	SB-EC-104 SB-EC-104-15.0 15-15.5 11/13/2009	SB-EC-104 SB-EC-104-20.0 20-20.5 11/13/2009	SB-EC-104 SB-EC-104-25.0 25-25.5 11/13/2009	SB-EC-104 SB-EC-104-30.0 30-30.5 11/13/2009	SB-EC-104 SB-EC-104-35.0 34.5-35 11/13/2009
VOC	3-METHYLHEXANE	mg/kg	<0.092	0.36	0.2J-	0.0035	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.0008	<0.11	<0.084	0.24	0.22	0.82	1.3	1.1
[EPA 8260B]	4-CHLOROTOLUENE	mg/kg	<0.059	<0.063	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.077	<0.00059	<0.07	<0.054	<0.065	<0.061	<0.071	<0.063	<0.059
	4-METHYL-2-PENTANONE	mg/kg	<0.72	<0.77	<0.48	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.94	<0.0036	<0.85	<0.66	<0.79	<0.74	<0.86	<0.77	<0.72
	ACETONE	mg/kg	<2	<2.2	<1.4	0.058	0.062J-	0.037J-	0.02	0.041	0.027	<2.7	<0.0064	<2.4	<1.8	<2.2	<2.1	<2.4	<2.2	<2
	BENZENE	mg/kg	36	27	1.9	0.017	0.0012J-	0.0012J-	0.00085	0.00088	0.00089	<0.082	0.0022	<0.074	0.38	1.2	0.96	3.2	5.1	1.6
	BROMOBENZENE	mg/kg	<0.063	<0.067	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.082	<0.00067	<0.074	<0.057	<0.069	<0.065	<0.075	<0.067	<0.062
	BROMOCHLOROMETHANE	mg/kg	<0.092	<0.099	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.12	<0.00072	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	BROMODICHLOROMETHANE	mg/kg	<0.057	<0.061	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.075	<0.0004	<0.068	<0.052	<0.062	<0.059	<0.068	<0.061	<0.057
	BROMOFORM	mg/kg	<0.072	<0.077	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.094	<0.00064	<0.085	<0.066	<0.079	<0.074	<0.086	<0.077	<0.072
	BROMOMETHANE	mg/kg	<0.083	<0.089	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.11	<0.00074	<0.098	<0.076	<0.091	<0.086	<0.099	<0.089	<0.083
	CARBON DISULFIDE	mg/kg	0.34	<0.11	0.063	0.0057	<0.0047UJ	<0.0042UJ	<0.0042	0.0034	<0.0043	<0.14	<0.00078	<0.12	<0.096	0.15	0.65	<0.13	0.38	3.9
	CARBON TETRACHLORIDE	mg/kg	<0.052	<0.055	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.068	<0.0004	<0.061	<0.047	<0.056	<0.053	<0.062	<0.055	<0.051
	CHLOROBENZENE	mg/kg	24	15	1.4	0.012	0.001J-	0.00071J-	0.00059	<0.0019	0.00046	0.22	0.017	0.4	8.7	5.6	7.4	31	58	20
	CHLOROETHANE	mg/kg	<0.083	<0.089	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.11	<0.0012	<0.098	<0.076	<0.091	<0.086	<0.099	<0.089	<0.083
	CHLOROFORM	mg/kg	<0.081	<0.087	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.11	<0.0004	<0.096	<0.074	<0.089	<0.084	<0.097	<0.087	<0.081
	CHLOROMETHANE	mg/kg	<0.092	<0.099	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.12	<0.0008	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.089	<0.095	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.00066	<0.1	<0.081	<0.097	<0.091	<0.11	<0.095	<0.088
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.066	<0.071	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.087	<0.00035	<0.079	<0.061	<0.073	<0.068	<0.079	<0.071	<0.066
	DIBROMOCHLOROMETHANE	mg/kg	<0.05	<0.053	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.065	<0.00056	<0.059	<0.045	<0.054	<0.051	<0.06	<0.053	<0.05
	DIBROMOMETHANE	mg/kg	<0.077	<0.083	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.1	<0.00072	<0.092	<0.071	<0.085	<0.08	<0.093	<0.083	<0.077
	DICHLORODIFLUOROMETHANE	mg/kg	<0.11	<0.12	<0.19	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.15	<0.0012UJ	<0.13	<0.1	<0.12	<0.12	<0.13	<0.12	<0.11
	DIMETHYL DISULFIDE	mg/kg	1.6	2.5	1.7	0.0088	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	0.0012	0.32	0.0074	0.31	0.86	14	22	83	140	57J-
	ETHYLBENZENE	mg/kg	<0.05	<0.053	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.065	<0.0004	<0.059	<0.045	<0.054	<0.051	<0.06	<0.053	<0.05
	HEXACHLOROBUTADIENE	mg/kg	<0.072	<0.077	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.094	<0.00064	<0.085	<0.066	<0.079	<0.074	<0.086	<0.077	<0.072
	ISOPROPYLBENZENE	mg/kg																		
	M,P-XYLENE	mg/kg	<0.098	<0.1	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.13	0.00096	<0.12	<0.089	<0.11	<0.1	<0.12	<0.1	<0.097
	METHYLENE CHLORIDE	mg/kg	<0.79	<0.85	<0.96	<0.021	<0.019UJ	<0.017UJ	<0.017	<0.019	<0.017	<1	<0.0052	<0.94	<0.72	<0.87	<0.82	<0.95	<0.85	<0.79
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.11	<0.12	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.15	<0.0008	<0.14	<0.1	<0.12	<0.12	<0.14	<0.12	<0.11
	NAPHTHALENE	mg/kg	<0.15	<0.16	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.2	<0.00088	<0.18	<0.14	<0.16	<0.15	<0.18	<0.16	<0.15
	N-BUTYLBENZENE	mg/kg	<0.063	<0.067	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.082	<0.00058	<0.074	<0.057	<0.069	<0.065	<0.075	<0.067	<0.062
	N-HEPTANE	mg/kg	0.33	0.49	0.19J-	<0.0021	0.0021J-	<0.0017UJ	<0.0017UJ	<0.0019UJ	<0.0017UJ	<0.12	<0.0008	<0.11	<0.084	0.39	0.3	1.2	1.7	1.6
	NONANAL	mg/kg	<0.72	<0.77	<0.48	<0.011	0.01J-	<0.0084UJ	<0.0084	<0.0096	<0.0085	<0.94	<0.0031UJ	<0.85	<0.66	<0.79	<0.74	<0.86	<0.77	<0.72
	N-PROPYLBENZENE	mg/kg	<0.066	<0.071	<0.096	<0.0021UJ	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.087	<0.00049	<0.079	<0.061	<0.073	<0.068	<0.079	<0.071	<0.066
	O-XYLENE	mg/kg	<0.052	<0.055	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.068	<0.0004	<0.061	<0.047	<0.056	<0.053	<0.062	<0.055	<0.051
	P-ISOPROPYL TOLUENE	mg/kg	<0.089	<0.095	<0.096	<0.0021UJ	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.00058	<0.1	<0.081	<0.097	<0.091	<0.11	<0.095	<0.088
	SEC-BUTYLBENZENE	mg/kg	<0.057	<0.061	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.075	<0.00054	<0.068	<0.052	<0.062	<0.059	<0.068	<0.061	<0.057
	STYRENE	mg/kg	<0.055	<0.059	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.073	<0.00046	<0.066	<0.05	<0.06	<0.057	<0.066	<0.059	<0.055
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.05	<0.053	<0.24	<0.0053UJ	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.065	<0.0005	<0.059	<0.045	<0.054	<0.051	<0.06	<0.053	<0.05
	TETRACHLOROETHENE	mg/kg	<0.081	<0.087	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.11	<0.00039	<0.096	<0.074	<0.089	<0.084	<0.097	<0.087	<0.081
	TOLUENE	mg/kg	0.16	0.15	<0.096	0.0022	0.00062J-	<0.0017UJ	0.00044	0.00078	<0.0017	0.092	0.00077	0.072	0.079	0.24	0.27	1.1	1.9	0.58
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.092	<0.099	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.12	<0.00056	<0.11	<0.084	<0.1	<0.095	<0.11	<0.099	<0.092
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.065	<0.069	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.085	<0.00049	<0.076	<0.059	<0.071	<0.067	<0.077	<0.069	<0.064
	TRICHLOROETHENE	mg/kg	<0.07	<0.075	<0.096	<0.0021	<0.0019UJ	<0.0017UJ	<0.0017	<0.0019	<0.0017	<0.092	<0.0004	<0.083	<0.064	<0.077	<0.072	<0.084	<0.075	<0.07
	TRICHLOROFLUOROMETHANE	mg/kg	<0.11	<0.11	<0.24	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.14	<0.00043	<0.13	<0.097	<0.12	<0.11	<0.13	<0.11	<0.11
	VINYL CHLORIDE	mg/kg	<0.12UJ	<0.13UJ	<0.24UJ	<0.0053	<0.0047UJ	<0.0042UJ	<0.0042	<0.0048	<0.0043	<0.16	<0.00073	<0.14	<0.11	<0.13	<0.12	<0.14	<0.13	<0.12

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-105 SB-EC-105-2.0 2-2.5 11/12/2009	SB-EC-105 SB-EC-105-3.0 3-3.5 11/12/2009	SB-EC-105 SB-EC-105-5.0 4.5-5 11/12/2009	SB-EC-105 SB-EC-105-10.0 10-10.5 11/12/2009	SB-EC-105 SB-EC-105-15.0 14.5-15 11/12/2009	SB-EC-105 SB-EC-105-20.0 20-20.5 11/13/2009	SB-EC-105 SB-EC-105-25.0 25-25.5 11/13/2009	SB-EC-105 SB-EC-105-30.0 30-30.5 11/13/2009	SB-EC-105 SB-EC-105-35.0 35-35.5 11/13/2009	SB-EC-106 SB-EC-106-2.0 2-2.5 11/13/2009	SB-EC-106 SB-EC-106-5.0 5-5.5 11/13/2009	SB-EC-106 SB-EC-106-10.0 10-10.5 11/13/2009	SB-EC-106 SB-EC-106-15.0 15-15.5 11/13/2009	SB-EC-106 SB-EC-106-20.0 19-19.5 11/13/2009	SB-EC57 SB-EC-57-0.5 0-0.5 2/3/2009	SB-EC57 SB-EC-57-10 9.5-10 2/3/2009	SB-EC57 SB-EC-57-20 19.5-20 2/3/2009	SB-EC57 SB-EC-57-30 29.5-30 2/2/2009
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																		
	CHLOROACETALDEHYDE	mg/kg																		
	FORMALDEHYDE	mg/kg																		
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT																		
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT																		
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT																		
	SHORT AMPHIBOLE STRUCTURES	COUNT																		
	SHORT ASBESTOS STRUCTURES	COUNT																		
	SHORT CHRYSOTILE STRUCTURES	COUNT																		
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT																		
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT																		
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT																		
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg														11			
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg														5.8			
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg														1.9			
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg														5.6			
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg														0.24			
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg														2.5			
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg														1.4			
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg														0.38			
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg														0.88			
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg														5.1			
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg														<0.3			
	2,3,7,8-TCDD	ng/kg														<0.18			
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg														4.28			
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg														1.4			
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg														3.3			
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg														17			
	HEPTACHLORINATED DIBENZOFURAN	ng/kg														13			
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg														17			
	HEXACHLORINATED DIBENZOFURAN	ng/kg														37			
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg														8.9			
	OCTACHLORINATED DIBENZOFURAN	ng/kg														12			
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg														34			
	PENTACHLORINATED DIBENZOFURAN	ng/kg														71			
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg														2.2			
	TETRACHLORINATED DIBENZOFURAN	ng/kg														120			
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg														2			
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g																	
	Fraction organic Carbon	g/g																	
	Percent Moisture	%														2.7			
	PH	pH Units																	
	TOTAL ORGANIC CARBON	mg/kg																	
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																	
	EFH (C8 - C40)	mg/kg																	
	ETHANOL	mg/kg																	
	METHANOL	mg/kg																	
	ORO (C25-C40)	mg/kg																	
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																	
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																	
	CHLORIDE	mg/kg														33J+	220J+	110J+	240J+
	CYANIDE	mg/kg														<0.5	<0.5	<0.5	<0.5
	FLUORIDE	mg/kg														2.4	4	4.5	3.9
	IODIDE	mg/kg																	
	NITRATE (AS N)	mg/kg														1.6	0.67	<1.1	<1.1
	PH	pH Units														8.74	8.29	8.81	8.44
	PHOSPHATE	mg/kg														2000	1600	1700	1200
	PHOSPHORUS, TOTAL (AS P)	mg/kg																	
	SULFATE	mg/kg														310J+	540J+	70J+	170J+
	TOTAL CARBON	mg/kg																	
	TOTAL INORGANIC CARBON	mg/kg																	
	TOTAL ORGANIC CARBON	mg/Kg																	

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Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-105 SB-EC-105-2.0 2-2.5 11/12/2009	SB-EC-105 SB-EC-105-3.0 3-3.5 11/12/2009	SB-EC-105 SB-EC-105-5.0 4.5-5 11/12/2009	SB-EC-105 SB-EC-105-10.0 10-10.5 11/12/2009	SB-EC-105 SB-EC-105-15.0 14.5-15 11/12/2009	SB-EC-105 SB-EC-105-20.0 20-20.5 11/13/2009	SB-EC-105 SB-EC-105-25.0 25-25.5 11/13/2009	SB-EC-105 SB-EC-105-30.0 30-30.5 11/13/2009	SB-EC-105 SB-EC-105-35.0 35-35.5 11/13/2009	SB-EC-106 SB-EC-106-2.0 2-2.5 11/13/2009	SB-EC-106 SB-EC-106-5.0 5-5.5 11/13/2009	SB-EC-106 SB-EC-106-10.0 10-10.5 11/13/2009	SB-EC-106 SB-EC-106-15.0 15-15.5 11/13/2009	SB-EC-106 SB-EC-106-20.0 19-19.5 11/13/2009	SB-EC57 SB-EC-57-0.5 0-0.5 2/3/2009	SB-EC57 SB-EC-57-10 9.5-10 2/3/2009	SB-EC57 SB-EC-57-20 19.5-20 2/3/2009	SB-EC57 SB-EC-57-30 29.5-30 2/2/2009
METALS	ALUMINUM	mg/kg			7300		3600			5800							9500	10000	7900	8300
[EPA 6020, 6010B,	ANTIMONY	mg/kg			0.052UJ		0.022UJ			<0.014UJ							<0.34U	<0.32U	<0.21U	<0.17U
7471A, 7199]	ARSENIC	mg/kg	3.2	2.3	3.3	2	2.4	2.2	4.3	3.1	3.4	3.5	3.1	2.2	3.2	3.7	1.5J-	2.4J-	2J-	2.2J-
	BARIUM	mg/kg			170J+		140J+			110							160J-	140J-	130J-	120J-
	BERYLLIUM	mg/kg			0.49		0.27			0.35							0.43	0.4	0.36	0.37
	BORON	mg/kg																		
	CADMIUM	mg/kg			0.36		0.28			0.44							0.072	0.068	<0.5	<0.5
	CALCIUM	mg/kg															14000	48000	21000	18000
	CHROMIUM	mg/kg			15		12			5							12	20	16	13
	COBALT	mg/kg			4.8		2.6			3.5							5.3J-	6.8J-	5.6J-	5.8J-
	COPPER	mg/kg			23		7.2			7.2							13	14	13	14
	HEXAVALENT CHROMIUM	mg/kg															<0.2	<0.2	<0.2	<0.2
	IRON	mg/kg															14000	19000	15000	15000
	LEAD	mg/kg			4.6		3.4			3.8							7.7	6.6	5.5	5.3
	MAGNESIUM	mg/kg															6000	8600	7600	7700
	MANGANESE	mg/kg			210		130			150							280	290	250	220
	MERCURY	mg/kg															<0.02	<0.02	<0.02	<0.02
	MOLYBDENUM	mg/kg			0.91		1.7			0.19										
	NICKEL	mg/kg			17		9.5			8.6							9.8J-	15J-	13J-	11J-
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg															740	730	640	570
	POTASSIUM	mg/kg															4400	3200	2400	2700
	Potassium	mg/kg																		
	SELENIUM	mg/kg			0.49		0.28			<0.13							<1UJ	<1UJ	<1UJ	<1UJ
	SILVER	mg/kg			0.043J		0.028J			0.039J-							<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ
	SODIUM	mg/kg															480	830	740	590
	THALLIUM	mg/kg			0.087U		0.055U			0.095U							0.2	0.21	0.1	<0.5
	TIN	mg/kg															<10	<10	<10	<10
	TITANIUM	mg/kg															940	1200	980	1100
	URANIUM	mg/kg			0.78		0.48			1.3										
	VANADIUM	mg/kg			25J		11J			15							38J+	57J+	43J+	47J+
	ZINC	mg/kg			27		13			17							29	32	27	26
OC PEST	2,4'-DDD	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<1.1	3.2	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
[EPA 608/8080,	2,4'-DDE	mg/kg	<0.015	0.0068J+	<0.03	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.075	<0.015	<0.075	<0.38	<0.38	0.0016	<0.005	<0.005	<0.005
8081A]	2,4'-DDT	mg/kg																		
	4,4'-DDD	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005UJ	<0.005UJ	<0.005UJ	<0.005UJ
	4,4'-DDE	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	0.0025J-	<0.005UJ	<0.005	<0.005
	4,4'-DDT	mg/kg	<0.022	<0.0075	<0.045	<0.11	65	480	36	120	110	<1.1	<0.22	13	2500	3000	0.0079	<0.005	<0.005	<0.005
	ALDRIN	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
	ALPHA-BHC	mg/kg	3.8	2	32	5800	780	30	32	12	39	92	12	510	2100	560	0.045J+	0.36	<0.005	<0.0018U
	BETA-BHC	mg/kg	2.8	1.5	5.5	300	69	3.3	2.6	1.2	3.3	26	7.2	35	190	64	3	0.25	<0.005	<0.005
	CHLORDANE	mg/kg	<0.15	<0.05	<0.3	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.75	<0.15	<0.75	<3.8	<3.8	<0.05	<0.05	<0.05	<0.05
	DELTA-BHC	mg/kg	<0.022	0.019J+	0.48	8.9	5.8	<0.11	<0.11	<0.11	<0.11	<0.11	0.059	2.3	10	3.4J	<0.01	<0.01UJ	<0.01	<0.01
	DIELDRIN	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
	ENDOSULFAN I	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
	ENDOSULFAN II	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005UJ	<0.005	<0.005
	ENDOSULFAN SULFATE	mg/kg	<0.03	<0.01	<0.06	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.03	<0.15	<0.75	<0.75	<0.01	<0.01	<0.01	<0.01
	ENDRIN	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
	ENDRIN ALDEHYDE	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
	ENDRIN KETONE	mg/kg	<0.03	<0.01	<0.06	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.03	<0.15	<0.75	<0.75	<0.005	<0.005	<0.005	<0.005
	GAMMA-BHC (LINDANE)	mg/kg	0.27	0.15J+	1	69	16	0.41	0.31	0.44	0.76J	1.6	0.28	8.6	59	15	0.0024	0.0028J-	<0.005	<0.005
	HEPTACHLOR	mg/kg	<0.03	<0.01	<0.06	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.03	<0.15	<0.75	<0.75	<0.005	<0.005	<0.005	<0.005
	HEPTACHLOR EPOXIDE	mg/kg	<0.03	<0.01	<0.06	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.15	<0.03	<0.15	<0.75	<0.75	<0.005	<0.005	<0.005	<0.005
	METHOXYCHLOR	mg/kg	<0.022	<0.0075	<0.045	<0.11	<0.11	0.17	<0.11	<0.11	<0.11	<0.11	<0.022	<0.11	<0.56	<0.56	<0.005	<0.005	<0.005	<0.005
	TOXAPHENE	mg/kg	<0.75	<0.25	<1.5	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<3.8	<0.75	<3.8	<19	<19	<0.2	<0.2	<0.2	<0.2

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-105 SB-EC-105-2.0 2-2.5 11/12/2009	SB-EC-105 SB-EC-105-3.0 3-3.5 11/12/2009	SB-EC-105 SB-EC-105-5.0 4.5-5 11/12/2009	SB-EC-105 SB-EC-105-10.0 10-10.5 11/12/2009	SB-EC-105 SB-EC-105-15.0 14.5-15 11/12/2009	SB-EC-105 SB-EC-105-20.0 20-20.5 11/13/2009	SB-EC-105 SB-EC-105-25.0 25-25.5 11/13/2009	SB-EC-105 SB-EC-105-30.0 30-30.5 11/13/2009	SB-EC-105 SB-EC-105-35.0 35-35.5 11/13/2009	SB-EC-106 SB-EC-106-2.0 2-2.5 11/13/2009	SB-EC-106 SB-EC-106-5.0 5-5.5 11/13/2009	SB-EC-106 SB-EC-106-10.0 10-10.5 11/13/2009	SB-EC-106 SB-EC-106-15.0 15-15.5 11/13/2009	SB-EC-106 SB-EC-106-20.0 19-19.5 11/13/2009	SB-EC57 SB-EC-57-0.5 0-0.5 2/3/2009	SB-EC57 SB-EC-57-10 9.5-10 2/3/2009	SB-EC57 SB-EC-57-20 19.5-20 2/3/2009	SB-EC57 SB-EC-57-30 29.5-30 2/2/2009
OP PEST	AZINPHOS-METHYL	mg/kg															<0.013	<0.013	<0.013	<0.013
[EPA 8141A]	BOLSTAR	mg/kg															<0.013	<0.013	<0.013	<0.013
	CARBOPHENOTHION (TRITHION)	mg/kg															<0.033	<0.033	<0.033	<0.033
	CHLORPYRIFOS	mg/kg															<0.02	<0.02	<0.02	<0.02
	COUMAPHOS	mg/kg															<0.013	<0.013	<0.013	<0.013
	DEMETON	mg/kg															<0.039	<0.039	<0.039	<0.039
	DEMETON-O	mg/kg															<0.039	<0.039	<0.039	<0.039
	DIAZINON	mg/kg															<0.022	<0.022	<0.022	<0.022
	DICHLORVOS	mg/kg															<0.023	<0.023	<0.023	<0.023
	DIMETHOATE	mg/kg															<0.022	<0.022	<0.022	<0.022
	DISULFOTON	mg/kg															<0.048UJ	<0.048UJ	<0.048UJ	<0.048UJ
	EPN	mg/kg															<0.013	<0.013	<0.013	<0.013
	ETHION	mg/kg																		
	ETHOPROP	mg/kg															<0.015	<0.015	<0.015	<0.015
	ETHYL PARATHION	mg/kg															<0.018	<0.018	<0.018	<0.018
	FAMPHUR	mg/kg															<0.013	<0.013	<0.013	<0.013
	FENSULFOTHION	mg/kg															<0.025UJ	<0.025UJ	<0.025UJ	<0.025UJ
	FENTHION	mg/kg															<0.033	<0.033	<0.033	<0.033
	MALATHION	mg/kg															<0.015	<0.015	<0.015	<0.015
	MERPHOS	mg/kg															<0.03UJ	<0.03UJ	<0.03UJ	<0.03UJ
	METHYL CARBOPHENOTHION	mg/kg															<0.033UJ	<0.033UJ	<0.033UJ	<0.033UJ
	METHYL PARATHION	mg/kg															<0.02	<0.02	<0.02	<0.02
	MEVINPHOS	mg/kg															<0.015UJ	<0.015UJ	<0.015UJ	<0.015UJ
	NALED	mg/kg															<0.07UJ	<0.07UJ	<0.07UJ	<0.07UJ
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg															<0.039	<0.039	<0.039	<0.039
	PHORATE	mg/kg															<0.02	<0.02	<0.02	<0.02
	PHOSMET	mg/kg															<0.067UJ	<0.067UJ	<0.067UJ	<0.067UJ
	RONNEL	mg/kg															<0.046	<0.046	<0.046	<0.046
	STIROPHOS	mg/kg															<0.015	<0.015	<0.015	<0.015
	SULFOTEPP	mg/kg															<0.02	<0.02	<0.02	<0.02
	TETRACHLORVINPHOS	mg/kg																		
	THIONAZIN	mg/kg															<0.018	<0.018	<0.018	<0.018
	TOKUTHION	mg/kg															<0.02	<0.02	<0.02	<0.02
	TRICHLORNATE	mg/kg															<0.02	<0.02	<0.02	<0.02
ORGACIDS	4-CHLOROBENZENESULFONIC ACID	mg/Kg															<0.5	<0.5	<0.5	<0.5
[HPLC]	BENZENESULFONIC ACID	mg/Kg															<0.5	<0.5	<0.5	<0.5
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg															<0.5	<0.5	<0.5	<0.5
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg															<2.5	<2.5	<2.5	<2.5
	PHTHALIC ACID	mg/Kg															<0.5	<0.5	<0.5	<0.5
PCB	AROCLOR-1016	mg/kg															<0.05	<0.05	<0.05	<0.05
[EPA 8082]	AROCLOR-1221	mg/kg															<0.05	<0.05	<0.05	<0.05
	AROCLOR-1232	mg/kg															<0.05	<0.05	<0.05	<0.05
	AROCLOR-1242	mg/kg															<0.05	<0.05	<0.05	<0.05
	AROCLOR-1248	mg/kg															<0.05	<0.05	<0.05	<0.05
	AROCLOR-1254	mg/kg															<0.05	<0.05	<0.05	<0.05
	AROCLOR-1260	mg/kg															<0.05	<0.05	<0.05	<0.05
SVOC	1,1'-SULFONYBIS BENZENE	mg/kg															<6.6	<6.6	<6.6	<6.6
[EPA 8270C/M]	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg															2.2	<1.7	<1.7	<1.7
	1,2,4,5-TETRACHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	1,2,4-TRICHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	1,2-DICHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	1,3-DICHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	1,4-DICHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																		

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Group and Method	Analyte	Units	SB-EC-105 SB-EC-105-2.0 2-2.5 11/12/2009	SB-EC-105 SB-EC-105-3.0 3-3.5 11/12/2009	SB-EC-105 SB-EC-105-5.0 4.5-5 11/12/2009	SB-EC-105 SB-EC-105-10.0 10-10.5 11/12/2009	SB-EC-105 SB-EC-105-15.0 14.5-15 11/12/2009	SB-EC-105 SB-EC-105-20.0 20-20.5 11/13/2009	SB-EC-105 SB-EC-105-25.0 25-25.5 11/13/2009	SB-EC-105 SB-EC-105-30.0 30-30.5 11/13/2009	SB-EC-105 SB-EC-105-35.0 35-35.5 11/13/2009	SB-EC-106 SB-EC-106-2.0 2-2.5 11/13/2009	SB-EC-106 SB-EC-106-5.0 5-5.5 11/13/2009	SB-EC-106 SB-EC-106-10.0 10-10.5 11/13/2009	SB-EC-106 SB-EC-106-15.0 15-15.5 11/13/2009	SB-EC-106 SB-EC-106-20.0 19-19.5 11/13/2009	SB-EC57 SB-EC-57-0.5 0-0.5 2/3/2009	SB-EC57 SB-EC-57-10 9.5-10 2/3/2009	SB-EC57 SB-EC-57-20 19.5-20 2/3/2009	SB-EC57 SB-EC-57-30 29.5-30 2/2/2009
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	2,4-DICHLOROPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	2,4-DIMETHYLPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	2,4-DINITROPHENOL	mg/kg															<0.66	<0.66	<0.66	<0.66
	2,4-DINITROTOLUENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	2,6-DINITROTOLUENE	mg/kg																		
	2-CHLORONAPHTHALENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	2-CHLOROPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																		
	2-METHYLNAPHTHALENE	mg/kg																		
	2-METHYLPHENOL	mg/kg																		
	2-NITROANILINE	mg/kg															<0.33	<0.33	<0.33	<0.33
	2-NITROPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	3,3'-DICHLOROBENZIDINE	mg/kg															<0.83	<0.83	<0.83	<0.83
	3-HEXENE-2,5-DIONE	mg/kg																		
	3-NITROANILINE	mg/kg																		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																		
	4-BROMOPHENYL PHENYL ETHER	mg/kg															<0.33	<0.33	<0.33	<0.33
	4-CHLORO-3-METHYLPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	4-CHLOROANILINE	mg/kg															<0.33	<0.33	<0.33	<0.33
	4-CHLOROBENZENETHIOL	mg/kg															<6.6	<6.6	<6.6	<6.6
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg															<0.33	<0.33	<0.33	<0.33
	4-CHLOROPHENYL PHENYL ETHER	mg/kg															<0.33	<0.33	<0.33	<0.33
	4-METHYLPHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	4-NITROANILINE	mg/kg															<0.83	<0.83	<0.83	<0.83
	4-NITROPHENOL	mg/kg															<0.83	<0.83	<0.83	<0.83
	ACENAPHTHENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	ACENAPHTHYLENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	ANILINE	mg/kg																		
	ANTHRACENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	AZOBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZO(A)ANTHRACENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZO(A)PYRENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZO(B)FLUORANTHENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZO(GHI)PERYLENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZO(K)FLUORANTHENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZOIC ACID	mg/kg															<0.83UJ	<0.83	<0.83	<0.83
	BENZOPHENONE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BENZYL ALCOHOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																		
	BIS(2-CHLOROETHYL)ETHER	mg/kg															<0.17	<0.17	<0.17	<0.17
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg															<0.33	<0.33	<0.33	<0.33
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg															<0.33	<0.33	<0.33	<0.33
	BUTYL BENZYL PHTHALATE	mg/kg																		
	CHLORAL	mg/kg																		
	CHRYSENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	DIBENZO(A,H)ANTHRACENE	mg/kg															<0.42	<0.42	<0.42	<0.42
	DIBENZOFURAN	mg/kg															<0.33	<0.33	<0.33	<0.33
	DICHLOROACETALDEHYDE	mg/kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg															<1.7	<1.7	<1.7	<1.7
	DIETHYL PHTHALATE	mg/kg															<0.33	<0.33	<0.33	<0.33
	DIMETHYL PHTHALATE	mg/kg															<0.33	<0.33	<0.33	<0.33
	DIMETHYL SULFOXIDE	mg/kg																		
	DI-N-BUTYL PHTHALATE	mg/kg															0.15	0.11	<0.33	<0.33
	DI-N-OCTYL PHTHALATE	mg/kg															<0.33	<0.33	<0.33	<0.33

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-105 SB-EC-105-2.0 2-2.5 11/12/2009	SB-EC-105 SB-EC-105-3.0 3-3.5 11/12/2009	SB-EC-105 SB-EC-105-5.0 4.5-5 11/12/2009	SB-EC-105 SB-EC-105-10.0 10-10.5 11/12/2009	SB-EC-105 SB-EC-105-15.0 14.5-15 11/12/2009	SB-EC-105 SB-EC-105-20.0 20-20.5 11/13/2009	SB-EC-105 SB-EC-105-25.0 25-25.5 11/13/2009	SB-EC-105 SB-EC-105-30.0 30-30.5 11/13/2009	SB-EC-105 SB-EC-105-35.0 35-35.5 11/13/2009	SB-EC-106 SB-EC-106-2.0 2-2.5 11/13/2009	SB-EC-106 SB-EC-106-5.0 5-5.5 11/13/2009	SB-EC-106 SB-EC-106-10.0 10-10.5 11/13/2009	SB-EC-106 SB-EC-106-15.0 15-15.5 11/13/2009	SB-EC-106 SB-EC-106-20.0 19-19.5 11/13/2009	SB-EC57 SB-EC-57-0.5 0-0.5 2/3/2009	SB-EC57 SB-EC-57-10 9.5-10 2/3/2009	SB-EC57 SB-EC-57-20 19.5-20 2/3/2009	SB-EC57 SB-EC-57-30 29.5-30 2/2/2009
SVOC	FLUORANTHENE	mg/kg															<0.33	<0.33	<0.33	<0.33
[EPA 8270C/M]	FLUORENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg															<1.7	<1.7	<1.7	<1.7
	HEXACHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	HEXACHLOROBUTADIENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	HEXACHLOROCYCLOPENTADIENE	mg/kg															<0.83	<0.83	<0.83	<0.83
	HEXACHLOROETHANE	mg/kg															<0.33	<0.33	<0.33	<0.33
	INDENO(1,2,3-CD)PYRENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	ISOPHORONE	mg/kg															<0.33	<0.33	<0.33	<0.33
	NAPHTHALENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg																		
	NITROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	N-NITROSODIMETHYLAMINE	mg/kg															<0.33	<0.33	<0.33	<0.33
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg															<0.25	<0.25	<0.25	<0.25
	N-NITROSODIPHENYLAMINE	mg/kg															<0.33	<0.33	<0.33	<0.33
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg															0.13	0.14	<0.33	<0.33
	PENTACHLOROBENZENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	PENTACHLOROPHENOL	mg/kg															<0.83	<0.83	<0.83	<0.83
	PHENANTHRENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	PHENOL	mg/kg															<0.33	<0.33	<0.33	<0.33
	PHENYL DISULFIDE	mg/kg															<0.33	<0.33	<0.33	<0.33
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg															<0.33	<0.33	<0.33	<0.33
	PYRIDINE	mg/kg															<0.2	<0.2	<0.2	<0.2
	THIOPHENOL	mg/kg															<6.6	<6.6	<6.6	<6.6
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00052	<0.0006	<0.00051	<0.019	<0.027	<0.019	<0.019	<0.024	<0.047	<0.00059	<0.00051	<0.047	<0.15	<0.099	<0.004	<0.0042	<0.0041	<0.0042
[EPA 8260B]	1,1,1-TRICHLOROETHANE	mg/kg	<0.00063	<0.00073	<0.00063	<0.034UJ	<0.049UJ	<0.035UJ	<0.034UJ	<0.043UJ	<0.085	<0.00072	<0.00062	<0.085	<0.27	<0.18	<0.0016	<0.0017	<0.0016	<0.0017
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00078UJ	<0.0009	<0.00077	<0.049	<0.069	<0.049	<0.048	<0.061	<0.12	<0.00088	<0.00077	<0.12	<0.39	<0.25	<0.0016	<0.0017	<0.0016	<0.0017
	1,1,2-TRICHLOROETHANE	mg/kg	<0.00079	<0.00091	<0.00078	<0.048UJ	<0.068UJ	<0.048UJ	<0.047UJ	<0.059UJ	<0.12	<0.0009	<0.00078	<0.12	<0.38	<0.25	<0.0016	<0.0017	<0.0016	<0.0017
	1,1-DICHLOROETHANE	mg/kg	<0.00045	<0.00052	<0.00045	<0.036	<0.051	<0.036	<0.035	<0.045	<0.09	<0.00051	<0.00045	<0.09	<0.29	<0.19	<0.0016	<0.0017	<0.0016	<0.0017
	1,1-DICHLOROETHENE	mg/kg	<0.00054	<0.00063	<0.00054	<0.043	<0.062	<0.044	<0.042	<0.054	<0.11UJ	<0.00062	<0.00053	<0.11UJ	<0.34UJ	<0.23UJ	<0.004	<0.0042	<0.0041	<0.0042
	1,1-DICHLOROPROPENE	mg/kg	<0.00036	<0.00042	<0.00036	<0.035	<0.05	<0.036	<0.034	<0.044	<0.087	<0.00041	<0.00036	<0.087	<0.28	<0.18	<0.0016	<0.0017	<0.0016	<0.0017
	1,2,3-TRICHLOROBENZENE	mg/kg	0.002J	<0.001	0.00097	0.33	0.8	0.88	0.27	1.3	1.2J	<0.001	0.0013J+	25J	37J	15J	<0.004	<0.0042	<0.0041	<0.0042
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.00091UJ	<0.001	<0.0009	<0.043	<0.062	<0.044	<0.042	<0.054	<0.11	<0.001	<0.00089	<0.11	<0.34	<0.23	<0.0081	<0.0083	<0.0081	<0.0085
	1,2,4-TRICHLOROBENZENE	mg/kg	0.078J	0.015	0.019	2.5	9.5	12	3.6	16	14	0.023	0.046	150	270	100	0.0016	<0.0042	0.0029	0.0013
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00071UJ	<0.00082	<0.0007	<0.03	<0.042	<0.03	<0.029	<0.037	<0.074	0.00095	0.00089	<0.074	<0.24	<0.16	<0.0016	<0.0017	<0.0016	<0.0017
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0014UJ	<0.0016	<0.0013	<0.053	<0.076	<0.054	<0.052	<0.066	<0.13	<0.0015	<0.0013	<0.13	<0.42	<0.28	<0.004	<0.0042	<0.0041	<0.0042
	1,2-DIBROMOETHANE	mg/kg	<0.00072	<0.00084	<0.00072	<0.036UJ	<0.051UJ	<0.036UJ	<0.035UJ	<0.045UJ	<0.09	<0.00082	<0.00071	<0.09	<0.29	<0.19	<0.0016	<0.0017	<0.0016	<0.0017
	1,2-DICHLOROBENZENE	mg/kg	0.0024J	<0.00099	0.0027	1.6	0.21	1	0.21	0.92	0.45	0.0016	0.00096	16	30	9.9	<0.0016	<0.0017	<0.0016	0.00095
	1,2-DICHLOROETHANE	mg/kg	<0.00072	<0.00084	<0.00072	<0.037UJ	<0.053UJ	<0.037UJ	<0.036UJ	<0.046UJ	<0.092	<0.00082	<0.00071	<0.092	<0.29	<0.19	<0.0016	<0.0017	<0.0016	<0.0017
	1,2-DICHLOROPROPANE	mg/kg	<0.00072	<0.00084	<0.00072	<0.032	<0.045	<0.032	<0.031	<0.039	<0.078	<0.00082	<0.00071	<0.078	<0.25	<0.16	<0.0016	<0.0017	<0.0016	<0.0017
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	0.87	1.1	<0.24	<0.0016	<0.0017	<0.0016	<0.0017
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00057UJ	<0.00066	<0.00056	<0.027	<0.039	<0.027	<0.027	<0.034	<0.067	<0.00065	0.00057	<0.067	<0.21	<0.14	<0.0016	<0.0017	<0.0016	<0.0017
	1,3-DICHLOROBENZENE	mg/kg	<0.00076UJ	<0.00088	<0.00075	0.071	<0.04	0.2	0.048	0.19	0.087	<0.00086	<0.00075	1.9	3.5	1.2	<0.0016	<0.0017	<0.0016	<0.0017
	1,3-DICHLOROPROPANE	mg/kg	<0.00057	<0.00066	<0.00056	<0.033UJ	<0.046UJ	<0.033UJ	<0.032UJ	<0.04UJ	<0.081	<0.00065	<0.00056	<0.081	<0.26	<0.17	<0.0016	<0.0017	<0.0016	<0.0017
	1,4-DICHLOROBENZENE	mg/kg	0.0018J	<0.00098	0.0012	0.8	0.15	1.1	0.49	2.6	1.2	0.0017	0.00096	23	45	15	<0.0016	<0.0017	0.0015	0.0032
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	<0.11	<0.36	<0.24	<0.0016	<0.0017	<0.0016	<0.0017
	2,2-DICHLOROPROPANE	mg/kg	<0.00054	<0.00063	<0.00054	<0.024	<0.035	<0.025	<0.024	<0.03	<0.061	<0.00062	<0.00053	<0.061	<0.19	<0.13	<0.0016	<0.0017	<0.0016	<0.0017
	2,2-DIMETHYLPENTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	<0.11	<0.36	<0.24	<0.0016	<0.0017	<0.0016	<0.0017
	2,3-DIMETHYLPENTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	0.35	0.63	<0.001	<0.00089	1.1	2.3	1	<0.0016	<0.0017	<0.0016	<0.0017
	2,4-DIMETHYLPENTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	<0.11	<0.36	<0.24	<0.0016	<0.0017	<0.0016	<0.0017
	2-BUTANONE	mg/kg	<0.0054	<0.0063	<0.0054	<0.65UJ	<0.93UJ	<0.66UJ	<0.64UJ	<0.81UJ	<1.6	<0.0062	<0.0053	<1.6	<5.2	<3.4	0.0049J+	<0.0083	<0.0081	<0.0085
	2-CHLOROTOLUENE	mg/kg	<0.00079UJ	<0.00091	<0.00078	<0.029	<0.041	<0.029	<0.028	<0.036	<0.072	<0.0009	<0.00078	<0.072	<0.23	<0.15	<0.004	<0.0042	<0.0041	<0.0042
	2-HEXANONE	mg/kg	<0.0082	<0.0095	<0.0082	<0.09UJ	<0.13UJ	<0.091UJ	<0.088UJ	<0.11UJ	<0.22	<0.0094	<0.0081	<0.22	<0.72	<0.47	<0.0081	<0.0083	<0.0081	<0.0085
	2-METHYLHEXANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	0.046	0.071	0.89	2	<0.001	<0.00089	2.9	6.3	3.2	<0.0016	<0.0017	0.0026	0.01
	3,3-DIMETHYLPENTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	<0.11	<0.36	<0.24	<0.0016	<0.0017	<0.0016	<0.0017
	3-ETHYLPENTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	0.64	1.4	0.58	<0.0016	<0.0017	<0.0016	<0.0017

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-105 SB-EC-105-2.0 2-2.5 11/12/2009	SB-EC-105 SB-EC-105-3.0 3-3.5 11/12/2009	SB-EC-105 SB-EC-105-5.0 4.5-5 11/12/2009	SB-EC-105 SB-EC-105-10.0 10-10.5 11/12/2009	SB-EC-105 SB-EC-105-15.0 14.5-15 11/12/2009	SB-EC-105 SB-EC-105-20.0 20-20.5 11/13/2009	SB-EC-105 SB-EC-105-25.0 25-25.5 11/13/2009	SB-EC-105 SB-EC-105-30.0 30-30.5 11/13/2009	SB-EC-105 SB-EC-105-35.0 35-35.5 11/13/2009	SB-EC-106 SB-EC-106-2.0 2-2.5 11/13/2009	SB-EC-106 SB-EC-106-5.0 5-5.5 11/13/2009	SB-EC-106 SB-EC-106-10.0 10-10.5 11/13/2009	SB-EC-106 SB-EC-106-15.0 15-15.5 11/13/2009	SB-EC-106 SB-EC-106-20.0 19-19.5 11/13/2009	SB-EC57 SB-EC-57-0.5 0-0.5 2/3/2009	SB-EC57 SB-EC-57-10 9.5-10 2/3/2009	SB-EC57 SB-EC-57-20 19.5-20 2/3/2009	SB-EC57 SB-EC-57-30 29.5-30 2/2/2009
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	0.073	0.12	1.4	2.5	<0.001	<0.00089	4.7	10	4.7	<0.0016	<0.0017	0.0025	0.01
	4-CHLOROTOLUENE	mg/kg	<0.00067UJ	<0.00077	<0.00066	<0.029	<0.041	<0.029	<0.028	<0.036	<0.072	<0.00076	<0.00066	<0.072	<0.23	<0.15	<0.004	<0.0042	<0.0041	<0.0042
	4-METHYL-2-PENTANONE	mg/kg	<0.0041	<0.0047	<0.004	<0.35	<0.5	<0.36	<0.34	<0.44	<0.87	<0.0046	<0.004	<0.87	<2.8	<1.8	<0.004	<0.0042	<0.0041	<0.0042
	ACETONE	mg/kg	<0.0072	<0.0084	<0.0072	<0.99	<1.4	<1	<0.97	<1.2	<2.5	<0.0082	<0.0071	<2.5	<7.9	<5.2	0.041	0.042	0.032	0.032
	BENZENE	mg/kg	0.0021	0.0011	0.00059	0.66J	0.067J	0.057J	0.34J	2.5J	2	<0.00051	<0.00045	9.8	22	4.9	0.00048	0.00058	0.0019	0.01
	BROMOBENZENE	mg/kg	<0.00076UJ	<0.00088	<0.00075	<0.031	<0.044	<0.031	<0.03	<0.038	<0.076	<0.00086	<0.00075	<0.076	<0.24	<0.16	<0.004	<0.0042	<0.0041	<0.0042
	BROMOCHLOROMETHANE	mg/kg	<0.00082	<0.00094	<0.00081	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.00093	<0.0008	<0.11	<0.36	<0.24	<0.004	<0.0042	<0.0041	<0.0042
	BROMODICHLOROMETHANE	mg/kg	<0.00045	<0.00052	<0.00045	<0.028UJ	<0.04UJ	<0.028UJ	<0.027UJ	<0.035UJ	<0.07	<0.00051	<0.00045	<0.07	<0.22	<0.15	<0.0016	<0.0017	<0.0016	<0.0017
	BROMOFORM	mg/kg	<0.00072	<0.00084	<0.00072	<0.035	<0.05	<0.036	<0.034	<0.044	<0.087	<0.00082	<0.00071	<0.087	<0.28	<0.18	<0.004	<0.0042	<0.0041	<0.0042
	BROMOMETHANE	mg/kg	<0.00083	<0.00096	<0.00082	<0.041	<0.058	<0.041	<0.04	<0.05	<0.1	<0.00095	<0.00082	<0.1	<0.32	<0.21	<0.004	<0.0042	<0.0041	<0.0042
	CARBON DISULFIDE	mg/kg	<0.00088	<0.001	<0.00087	<0.052	<0.073	0.51	9.5	4.8	4.3	<0.001	<0.00086	0.17	0.46	2.6	<0.004	<0.0042	0.003	0.0061
	CARBON TETRACHLORIDE	mg/kg	<0.00045	<0.00052	<0.00045	<0.025	<0.036	<0.026	<0.025	<0.031	<0.063	<0.00051	<0.00045	<0.063	<0.2	<0.13	<0.004	<0.0042	<0.0041	<0.0042
	CHLOROBENZENE	mg/kg	0.0041	0.0023	0.0048	1.7	0.18	2	5.5	37	16	0.0013	0.0028	62	210	79	<0.0016	<0.0017	0.0044	0.043
	CHLOROETHANE	mg/kg	<0.0014	<0.0016	<0.0013	<0.041	<0.058	<0.041	<0.04	<0.05	<0.1	<0.0015	<0.0013	<0.1	<0.32	<0.21	<0.004	<0.0042	<0.0041	<0.0042
	CHLOROFORM	mg/kg	<0.00045	<0.00052	<0.00045	<0.04	<0.057	<0.04	<0.039	<0.049	<0.099	<0.00051	<0.00045	<0.099	<0.31	<0.21	<0.0016	<0.0017	<0.0016	<0.0017
	CHLOROMETHANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.001	<0.00089	<0.11	<0.36	<0.24	<0.004	<0.0042	<0.0041	<0.0042
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00075	<0.00087	<0.00074	<0.043	<0.062	<0.044	<0.042	<0.054	<0.11	<0.00085	<0.00074	<0.11	<0.34	<0.23	<0.0016	<0.0017	<0.0016	<0.0017
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.0004	<0.00046	<0.00039	<0.033	<0.046	<0.033	<0.032	<0.04	<0.081	<0.00045	<0.00039	<0.081	<0.26	<0.17	<0.0016	<0.0017	<0.0016	<0.0017
	DIBROMOCHLOROMETHANE	mg/kg	<0.00063	<0.00073	<0.00063	<0.024	<0.035	<0.025	<0.024	<0.03	<0.061	<0.00072	<0.00062	<0.061	<0.19	<0.13	<0.0016	<0.0017	<0.0016	<0.0017
	DIBROMOMETHANE	mg/kg	<0.00082	<0.00094	<0.00081	<0.038	<0.054	<0.038	<0.037	<0.047	<0.094	<0.00093	<0.0008	<0.094	<0.3	<0.2	<0.0016	<0.0017	<0.0016	<0.0017
	DICHLORODIFLUOROMETHANE	mg/kg	<0.0014	<0.0016	<0.0013	<0.055UJ	<0.078UJ	<0.056UJ	<0.054UJ	<0.068UJ	<0.14	<0.0015	<0.0013	<0.14	<0.44	<0.29	<0.004	<0.0042	<0.0041	<0.0042
	DIMETHYL DISULFIDE	mg/kg	0.0024	0.0027	<0.0009	0.17	0.7	2.6	15	68	55	0.0036	0.0038	25	77	51	<0.0016	<0.0017	0.0081	0.14
	ETHYLBENZENE	mg/kg	<0.00045	<0.00052	<0.00045	<0.024	<0.035	<0.025	<0.024	<0.03	<0.061	<0.00051	<0.00045	<0.061	<0.19	<0.13	<0.0016	<0.0017	<0.0016	<0.0017
	HEXACHLOROBUTADIENE	mg/kg	<0.00072UJ	<0.00084	<0.00072	<0.035	<0.05	<0.036	<0.034	<0.044	<0.087	<0.00082	<0.00071	<0.087	<0.28	<0.18	<0.004	<0.0042	<0.0041	<0.0042
	ISOPROPYLBENZENE	mg/kg																		
	M,P-XYLENE	mg/kg	0.00082	<0.00084	<0.00072	<0.048	<0.068	<0.048	<0.047	<0.059	<0.12	0.00091	0.00089	<0.12	<0.38	<0.25	<0.0016	<0.0017	<0.0016	<0.0017
	METHYLENE CHLORIDE	mg/kg	<0.0059	<0.0068	<0.0058	<0.39	<0.55	<0.39	<0.38	<0.48	<0.96	<0.0067	<0.0058	<0.96	<3.1	<2	<0.016	<0.017	<0.016	<0.017
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.00091	<0.001	<0.0009	<0.056	<0.08	<0.056	<0.055	<0.07	<0.14	<0.001	<0.00089	<0.14	<0.44	<0.29	<0.004	<0.0042	<0.0041	<0.0042
	NAPHTHALENE	mg/kg	<0.001UJ	<0.0012	<0.00099	<0.073	<0.1	<0.074	<0.072	<0.091	<0.18	<0.0011	<0.00098	<0.18	<0.58	<0.38	<0.004	<0.0042	<0.0041	<0.0042
	N-BUTYLBENZENE	mg/kg	<0.00065UJ	<0.00075	<0.00065	<0.031	<0.044	<0.031	<0.03	<0.038	<0.076	<0.00074	<0.00064	<0.076	<0.24	<0.16	<0.004	<0.0042	<0.0041	<0.0042
	N-HEPTANE	mg/kg	<0.00091	<0.001	<0.0009	<0.045	0.072	0.091	0.17	2.1	2.8	<0.001	<0.00089	5.1	12	5.9	<0.0016	<0.0017	0.0027	0.021
	NONANAL	mg/kg	<0.0035	0.0041	<0.0035	<0.35	<0.5	<0.36	<0.34	<0.44	<0.87	<0.004	<0.0035	<0.87	<2.8	<1.8	<0.0081	<0.0083	0.0036	<0.0085
	N-PROPYLBENZENE	mg/kg	<0.00055UJ	<0.00064	<0.00055	<0.033	<0.046	<0.033	<0.032	<0.04	<0.081	<0.00063	<0.00054	<0.081	<0.26	<0.17	<0.0016	<0.0017	<0.0016	<0.0017
	O-XYLENE	mg/kg	<0.00045	<0.00052	<0.00045	<0.025UJ	<0.036UJ	<0.026UJ	<0.025UJ	<0.031UJ	<0.063	<0.00051	<0.00045	<0.063	<0.2	<0.13	<0.0016	<0.0017	<0.0016	<0.0017
	P-ISOPROPYL TOLUENE	mg/kg	<0.00065UJ	<0.00075	<0.00065	<0.043	<0.062	<0.044	<0.042	<0.054	<0.11	<0.00074	<0.00064	<0.11	<0.34	<0.23	<0.0016	<0.0017	<0.0016	<0.0017
	SEC-BUTYLBENZENE	mg/kg	<0.00061UJ	<0.0007	<0.0006	<0.028	<0.04	<0.028	<0.027	<0.035	<0.07	<0.00069	<0.0006	<0.07	<0.22	<0.15	<0.004	<0.0042	<0.0041	<0.0042
	STYRENE	mg/kg	<0.00053	<0.00061	<0.00052	<0.027	<0.039	<0.027	<0.027	<0.034	<0.067	<0.0006	<0.00052	<0.067	<0.21	<0.14	<0.0016	<0.0017	<0.0016	<0.0017
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.00056UJ	<0.00065	<0.00056	<0.024	<0.035	<0.025	<0.024	<0.03	<0.061	<0.00064	<0.00055	<0.061	<0.19	<0.13	<0.004	<0.0042	<0.0041	<0.0042
	TETRACHLOROETHENE	mg/kg	<0.00044	<0.00051	<0.00044	<0.04	<0.057	<0.04	<0.039	0.12	<0.099	<0.0005	<0.00044	<0.099	<0.31	<0.21	<0.0016	<0.0017	0.00075	0.00095
	TOLUENE	mg/kg	<0.00045	<0.00052	<0.00045	0.033J	0.063J	0.034J	0.18J	1.8J	0.76	<0.00051	<0.00045	3.1	6.9	2.5	<0.0016	<0.0017	0.00089	0.0035
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00063	<0.00073	<0.00063	<0.045	<0.064	<0.046	<0.044	<0.056	<0.11	<0.00072	<0.00062	<0.11	<0.36	<0.24	<0.0016	<0.0017	<0.0016	<0.0017
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00055	<0.00064	<0.00055	<0.032	<0.045	<0.032	<0.031	<0.039	<0.078	<0.00063	<0.00054	<0.078	<0.25	<0.16	<0.0016	<0.0017	<0.0016	<0.0017
	TRICHLOROETHENE	mg/kg	<0.00045	<0.00052	<0.00045	<0.034	<0.049	<0.035	<0.034	<0.043	<0.085	<0.00051	<0.00045	<0.085	<0.27	<0.18	<0.0016	<0.0017	<0.0016	<0.0017
	TRICHLOROFLUOROMETHANE	mg/kg	<0.00049	<0.00056	<0.00048	<0.052UJ	<0.075UJ	<0.053UJ	<0.051UJ	<0.065UJ	<0.13	<0.00056	<0.00048	<0.13	<0.42	<0.27	<0.004	<0.0042	<0.0041	<0.0042
	VINYL CHLORIDE	mg/kg	<0.00082	<0.00095	<0.00082	<0.059UJ	<0.084UJ	<0.059UJ	<0.057UJ	<0.073UJ	<0.15	<0.00094	<0.00081	<0.15	<0.47	<0.31	<0.004	<0.0042	<0.0041	<0.0042

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC57 SB-EC-57-40 39.5-40 2/2/2009	SB-EC58 SB-EC-58-0.5 0-0.5 1/29/2009	SB-EC58 SB-EC-58-10 9.5-10 1/29/2009	SB-EC58 SB-EC-58-20 19.5-20 1/29/2009	SB-EC58 SB-EC-58-30 29.5-30 1/29/2009	SB-EC58 SB-EC-58-40 39.5-40 1/30/2009	SB-EC59 SB-EC-59-0.5 0-0.5 2/5/2009	SB-EC59 SB-EC-59-10 9.5-10 2/5/2009	SB-EC59 SB-EC-59-20 19.5-20 2/5/2009	SB-EC59 SB-EC-59-30 29.5-30 2/5/2009	SB-EC59 SB-EC-59-40 39.5-40 2/5/2009	SB-EC-90 SB-EC-90-2.0 1.5-2 11/6/2009	SB-EC-90 SB-EC-90-5.0 5-5.5 11/6/2009	SB-EC-90 SB-EC-90-12.0 12-12.5 11/6/2009	SB-EC-90 SB-EC-90-15.0 15-15.5 11/6/2009	SB-EC-90 SB-EC-90-20.0 19.5-20 11/6/2009	WC-03 WC-03-10 10-12 2/9/2009	WC-03 WC-03-13 13-15 2/9/2009
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																		
	CHLOROACETALDEHYDE	mg/kg																		
	FORMALDEHYDE	mg/kg																		
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT																		
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT																		
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT																		
	SHORT AMPHIBOLE STRUCTURES	COUNT																		
	SHORT ASBESTOS STRUCTURES	COUNT																		
	SHORT CHRYSOTILE STRUCTURES	COUNT																		
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT																		
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT																		
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT																		
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg		270					16										110	55
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg		95					28										220	38
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg		30					15										84	13
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg		45					26										80	13
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg		4.4					1										<8	<13
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg		23					12										110	12
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg		13					9.3										<28	<12
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg		2.7					2.6										<14	<6
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg		11					9.4										<45	<12
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg		22					15										46	7.5
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg		3.1					2.3										<67	<410
	2,3,7,8-TCDD	ng/kg		0.75					<4.1										<940	<650
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg		29.95					17.17										58.66	6.71
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg		11					4.7										130	10
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg		18					11										45	<3.6
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg		43					40										75	18
	HEPTACHLORINATED DIBENZOFURAN	ng/kg		220					65										840	120
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg		560					27										250	93
	HEXACHLORINATED DIBENZOFURAN	ng/kg		240					140										1600	170
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg		110					49										<150	<12
	OCTACHLORINATED DIBENZOFURAN	ng/kg		200					64										260	85
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg		2400					31										220	320
	PENTACHLORINATED DIBENZOFURAN	ng/kg		270					190										520	130
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg		27					46										<67	<410
	TETRACHLORINATED DIBENZOFURAN	ng/kg		340					370										870	230
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg		16					540										38000	9700
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g																		14
	Fraction organic Carbon	g/g																		0.00725
	Percent Moisture	%		3.4					3.1										9.2	18.1
	PH	pH Units																		2.75
	TOTAL ORGANIC CARBON	mg/kg																		7250
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																		
	EFH (C8 - C40)	mg/kg																		
	ETHANOL	mg/kg																		
	METHANOL	mg/kg																		
	ORO (C25-C40)	mg/kg																		
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																		
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																		
	CHLORIDE	mg/kg	170J+	3.1J+	1500	1100	1100	380	9	420	810	190	390						1300	590
	CYANIDE	mg/kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.49	<0.49	<0.5	<0.5	<0.49						<0.5	<0.5
	FLUORIDE	mg/kg	2.5																	
	IODIDE	mg/kg																		
	NITRATE (AS N)	mg/kg	<1.1	1.3	<1.1	<1.1	<1.1	<1.1	0.64	<1.1	<1.1	0.73	<1.1						<2.2	<22
	PH	pH Units	8.13	8.38	8.01	9.27	9.31	9.87	7.71	7.73	7.85	8.41	8.39						5.59	2.1
	PHOSPHATE	mg/kg	1200	1500	6000J-	4500J-	4300J-	4000J-	5200	1100	1500	1300	2100						130000	500000
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	SULFATE	mg/kg	790J+	7.2J+	1400	1400	680	110	290J	2900J	740J	83J	180J						540J-	1700J-
	TOTAL CARBON	mg/kg																		
	TOTAL INORGANIC CARBON	mg/kg																		
	TOTAL ORGANIC CARBON	mg/Kg																		

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC57 SB-EC-57-40 39.5-40 2/2/2009	SB-EC58 SB-EC-58-0.5 0-0.5 1/29/2009	SB-EC58 SB-EC-58-10 9.5-10 1/29/2009	SB-EC58 SB-EC-58-20 19.5-20 1/29/2009	SB-EC58 SB-EC-58-30 29.5-30 1/29/2009	SB-EC58 SB-EC-58-40 39.5-40 1/30/2009	SB-EC59 SB-EC-59-0.5 0-0.5 2/5/2009	SB-EC59 SB-EC-59-10 9.5-10 2/5/2009	SB-EC59 SB-EC-59-20 19.5-20 2/5/2009	SB-EC59 SB-EC-59-30 29.5-30 2/5/2009	SB-EC59 SB-EC-59-40 39.5-40 2/5/2009	SB-EC-90 SB-EC-90-2.0 1.5-2 11/6/2009	SB-EC-90 SB-EC-90-5.0 5-5.5 11/6/2009	SB-EC-90 SB-EC-90-12.0 12-12.5 11/6/2009	SB-EC-90 SB-EC-90-15.0 15-15.5 11/6/2009	SB-EC-90 SB-EC-90-20.0 19.5-20 11/6/2009	WC-03 WC-03-10 10-12 2/9/2009	WC-03 WC-03-13 13-15 2/9/2009
METALS	ALUMINUM	mg/kg	7700	8500	<8200U	7900	5200	4600	12000	9600	9500	11000	7700						6700	8300
[EPA 6020, 6010B,	ANTIMONY	mg/kg	<0.15U	<0.31U	0.14	<0.14UJ	<1UJ	<1UJ	<0.28U	<0.17U	<0.26U	<0.16U	<0.11U						<1	<1
7471A, 7199]	ARSENIC	mg/kg	3.3J-	2.7	2.6	2.8	3	2.6	3.6J-	2.5J-	2.5J-	2.9J-	2.9J-	4	3.2	3.6	2.7	2.4	<0.5	<0.5
	BARIUM	mg/kg	140J-	150J-	120J-	110J-	110J-	90J-	160J-	130J-	150J-	140J-	140J-						8.3J-	8.2J-
	BERYLLIUM	mg/kg	0.45	0.49	0.45	0.48	0.29	0.28	0.61	0.5	0.45	0.56	0.43						<0.3	<0.3
	BORON	mg/kg																		
	CADMIUM	mg/kg	<0.5	0.1	0.06	<0.5	<0.5	<0.5	0.079	<0.5	0.1	<0.5	<0.5						<0.5	<0.5
	CALCIUM	mg/kg	19000	36000	33000	19000	28000	15000	30000	28000	33000	46000	26000						21000	23000
	CHROMIUM	mg/kg	12	12	10	15	7.8	6.3	17	15	21	14	13						<0.61U	1
	COBALT	mg/kg	4.8J-	6.2	5.2	5.8	4.5	3.8	7J-	6.2J-	6J-	6.2J-	5.2J-						0.22	0.23
	COPPER	mg/kg	12	15	12	12	10	9.3	16	13	13	14	14						0.58	0.56
	HEXAVALENT CHROMIUM	mg/kg	<0.2	0.043	<0.2UJ	0.034J-	<0.2UJ	<0.2UJ	<0.2UJ	<0.2UJ	<0.2UJ	<0.2UJ	<0.2UJ						<0.2	<0.2
	IRON	mg/kg	13000	15000	11000	14000	8600	8500	18000	17000	16000	16000	14000						11000	8500
	LEAD	mg/kg	6.2	11	6.7	5.5	4.3	3.5	9.6	6.7	6.3	6.8	5.1						2	0.41
	MAGNESIUM	mg/kg	7300	9300	8200	7700	5800	4200	10000	8100	8800	9400	6700						6900	10000
	MANGANESE	mg/kg	190	390	280	260	200	160	380	260	290	260	240						12	12
	MERCURY	mg/kg	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02	<0.02						<0.02	<0.02
	MOLYBDENUM	mg/kg																		
	NICKEL	mg/kg	8.2J-	13J-	11J-	13J-	8J-	7J-	14J-	13J-	13J-	12J-	9.6J-						0.72J-	1.3J-
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg	570	890	2900	1900	1300	1200											17000	87000
	POTASSIUM	mg/kg	2500	3200	3000	2300	1900	1600	4300	3000	3200	4000	2300						3100	3700
	Potassium	mg/kg																		
	SELENIUM	mg/kg	<1UJ	<0.26U	<1	<1	<1	<1	<1UJ	<1UJ	<1UJ	<1UJ	<1UJ						<1	<1
	SILVER	mg/kg	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ	<0.5UJ						<0.5UJ	<0.5UJ
	SODIUM	mg/kg	690	300	4800	7500	14000	3400	500	1100	1100	920	1200						5700J-	7700J-
	THALLIUM	mg/kg	<0.5	0.13	0.11	0.11	<0.5	<0.5	0.14	0.11	0.23	0.12	<0.5						<0.5	<0.5
	TIN	mg/kg	1.3	<10	<10	<10	<10	<10	<10	<10	1.3	1.4	<10						<10	<10
	TITANIUM	mg/kg	1100	750	580	660	530	520	1100	1100	1100	1100	1100						650J	260J
	URANIUM	mg/kg																		
	VANADIUM	mg/kg	44J+	38	30J+	39J+	29J+	30J+	52J+	50J+	44J+	46J+	44J+						1.7J-	1.4J-
	ZINC	mg/kg	26	30J-	24	28	18	23	36	30	32	30	27						<10UJ	<3.4UJ
OC PEST	2,4'-DDD	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
[EPA 608/8080,	2,4'-DDE	mg/kg	<0.005	0.018	<0.005	<0.005	<0.005	<0.01	0.084	<0.005	<0.005	<0.005	<0.005	0.82	<0.11	<0.001	<0.005	<0.0075	<19	<0.38
8081A]	2,4'-DDT	mg/kg																		
	4,4'-DDD	mg/kg	<0.005UJ	0.0021J-	<0.005	<0.005	<0.005	<0.01	<0.005UJ	<0.005UJ	<0.005UJ	<0.005UJ	<0.005UJ	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	4,4'-DDE	mg/kg	<0.005	0.016J-	<0.005	<0.005	<0.005	<0.01	<0.015UJ	<0.005UJ	<0.005UJ	<0.005UJ	<0.005UJ	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	4,4'-DDT	mg/kg	<0.005	0.016	<0.005	<0.005	<0.015	<0.1	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	1700	19
	ALDRIN	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	ALPHA-BHC	mg/kg	<0.0024U	0.0079	0.045	<0.005	<0.0035U	<0.01	0.21	0.13	0.14	0.0066J+	0.0091J+	1300	2700	0.11	0.29	0.76	80000	1400
	BETA-BHC	mg/kg	<0.005	0.51	0.2	0.0062J+	0.0046	<0.01	11	0.13	0.3	0.046	0.0055	250	330	0.013	0.05	0.062	830	130
	CHLORDANE	mg/kg	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.05	<0.05	<0.05	<0.05	<0.05	<1.5	<1.1	<0.01	<0.05	<0.075	<190	<3.8
	DELTA-BHC	mg/kg	<0.01	<0.01UJ	<0.05	<0.01	<0.01	<0.02UJ	0.027J+	0.0016	<0.01	<0.01	<0.01	350	120	0.016	0.027	0.048	68	0.5
	DIELDRIN	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	ENDOSULFAN I	mg/kg	<0.005	<0.005UJ	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	ENDOSULFAN II	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	ENDOSULFAN SULFATE	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.01	<0.02	<0.01	<0.01	<0.01	<0.01	<0.01	<0.3	<0.21	<0.002	<0.01	<0.015	<38	<0.75
	ENDRIN	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	ENDRIN ALDEHYDE	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.015	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	ENDRIN KETONE	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.3	<0.21	<0.002	<0.01	<0.015	<19	<0.38
	GAMMA-BHC (LINDANE)	mg/kg	<0.005	<0.005UJ	<0.025	<0.005	<0.005	<0.01	<0.005	0.0037	0.0033	<0.005	<0.005	480	330	0.054	0.26	0.42	1900	13
	HEPTACHLOR	mg/kg	<0.005	<0.005	<0.025	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.3	<0.21	<0.002	<0.01	<0.015	<19	<0.38
	HEPTACHLOR EPOXIDE	mg/kg	<0.005	<0.005	<0.025	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.3	<0.21	<0.002	<0.01	<0.015	<19	<0.38
	METHOXYCHLOR	mg/kg	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.22	<0.16	<0.0015	<0.0075	<0.011	<19	<0.38
	TOXAPHENE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.4	<0.2	<0.2	<0.2	<0.2	<0.2	<7.5	<5.4	<0.05	<0.25	<0.38	<750UJ	<15UJ

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC57 SB-EC-57-40 39.5-40 2/2/2009	SB-EC58 SB-EC-58-0.5 0-0.5 1/29/2009	SB-EC58 SB-EC-58-10 9.5-10 1/29/2009	SB-EC58 SB-EC-58-20 19.5-20 1/29/2009	SB-EC58 SB-EC-58-30 29.5-30 1/29/2009	SB-EC58 SB-EC-58-40 39.5-40 1/30/2009	SB-EC59 SB-EC-59-0.5 0-0.5 2/5/2009	SB-EC59 SB-EC-59-10 9.5-10 2/5/2009	SB-EC59 SB-EC-59-20 19.5-20 2/5/2009	SB-EC59 SB-EC-59-30 29.5-30 2/5/2009	SB-EC59 SB-EC-59-40 39.5-40 2/5/2009	SB-EC-90 SB-EC-90-2.0 1.5-2 11/6/2009	SB-EC-90 SB-EC-90-5.0 5-5.5 11/6/2009	SB-EC-90 SB-EC-90-12.0 12-12.5 11/6/2009	SB-EC-90 SB-EC-90-15.0 15-15.5 11/6/2009	SB-EC-90 SB-EC-90-20.0 19.5-20 11/6/2009	WC-03 WC-03-10 10-12 2/9/2009	WC-03 WC-03-13 13-15 2/9/2009
OP PEST	AZINPHOS-METHYL	mg/kg	<0.013	<0.013	<0.013	<0.13	<0.013	<13	<0.026UJ	<0.013UJ	<0.013UJ	<0.013	<0.013						<26	<13
[EPA 8141A]	BOLSTAR	mg/kg	<0.013	<0.013	<0.013	<0.13	<0.013	<13	<0.026	<0.013UJ	<0.013	<0.013UJ	<0.013UJ						<26	<13
	CARBOPHENOTHION (TRITHION)	mg/kg	<0.033	<0.033	<0.033	1.1J+	<0.033	110J+	<0.066	<0.033UJ	<0.033	<0.033	<0.033						440J+	61J+
	CHLORPYRIFOS	mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02	<20	<0.04	<0.02UJ	<0.02	<0.02	<0.02						<40	<20
	COUMAPHOS	mg/kg	<0.013	<0.013	<0.013	<0.13	<0.013	<13	<0.026	<0.013UJ	<0.013	<0.013	<0.013						<26	<13
	DEMETON	mg/kg	<0.039	<0.039	<0.039	<0.39	<0.039	<39	<0.078	<0.039UJ	<0.039	<0.039	<0.039						<78	<39
	DEMETON-O	mg/kg	<0.039	<0.039	<0.039	<0.39	<0.039	<39	<0.078	<0.039UJ	<0.039	<0.039	<0.039						<78	<39
	DIAZINON	mg/kg	<0.022	<0.022	<0.022	<0.22	<0.022	<22	<0.044	<0.022UJ	<0.022	<0.022	<0.022						<44	<22
	DICHLORVOS	mg/kg	<0.023	<0.023	<0.023	<0.23	<0.023	<23	<0.046	<0.023UJ	<0.023	<0.023	<0.023						<46	<23
	DIMETHOATE	mg/kg	<0.022	<0.022	<0.022	<0.22	<0.022	<22	<0.044	<0.022UJ	<0.022	<0.022	<0.022						<44	<22
	DISULFOTON	mg/kg	<0.048UJ	<0.048UJ	<0.048UJ	<0.48UJ	<0.048UJ	<48UJ	<0.096UJ	<0.048UJ	<0.048UJ	<0.048UJ	<0.048UJ						<96UJ	<48UJ
	EPN	mg/kg	<0.013	<0.013	<0.013	<0.13	<0.013	<13	<0.026	<0.013UJ	<0.013	<0.013	<0.013						<26	<13
	ETHION	mg/kg																		
	ETHOPROP	mg/kg	<0.015	<0.015	<0.015	<0.15	<0.015	<15	<0.03	<0.015UJ	<0.015	<0.015	<0.015						<30	<15
	ETHYL PARATHION	mg/kg	<0.018	<0.018	<0.018	<0.18	<0.018	<18	<0.036	<0.018UJ	<0.018	<0.018	<0.018						<36	<18
	FAMPHUR	mg/kg	<0.013	<0.013	<0.013	<0.13	<0.013	<13	<0.026	<0.013UJ	<0.013	<0.013UJ	<0.013UJ						<26	<13
	FENSULFOTHION	mg/kg	<0.025UJ	<0.025UJ	<0.025UJ	<0.25UJ	<0.025UJ	<25UJ	<0.05UJ	<0.025UJ	<0.025UJ	<0.025UJ	<0.025UJ						<50	<25
	FENTHION	mg/kg	<0.033	<0.033	<0.033	<0.33	<0.033	<33	<0.066UJ	<0.033UJ	<0.033UJ	<0.033UJ	<0.033UJ						<66	<33UJ
	MALATHION	mg/kg	<0.015	<0.015	<0.015	<0.15	<0.015	<15	<0.03	<0.015UJ	<0.015	<0.015	<0.015						<30	<15
	MERPHOS	mg/kg	<0.03UJ	<0.03UJ	<0.03UJ	<0.3UJ	<0.03UJ	<30UJ	<0.06UJ	<0.03UJ	<0.03UJ	<0.03UJ	<0.03UJ						<60	<30
	METHYL CARBOPHENOTHION	mg/kg	<0.033UJ	<0.033UJ	<0.033UJ	<0.33UJ	<0.033UJ	<33UJ	<0.066UJ	<0.033UJ	<0.033UJ	<0.033UJ	<0.033UJ						<66UJ	<33UJ
	METHYL PARATHION	mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02	<20	<0.04	<0.02UJ	<0.02	<0.02	<0.02						<40	<20
	MEVINPHOS	mg/kg	<0.015UJ	<0.015UJ	<0.015UJ	<0.15UJ	<0.015UJ	<15UJ	<0.03UJ	<0.015UJ	<0.015UJ	<0.015UJ	<0.015UJ						<30UJ	<15UJ
	NALED	mg/kg	<0.07UJ	<0.07UJ	<0.07UJ	<0.7UJ	<0.07UJ	<70UJ	<0.14UJ	<0.07UJ	<0.07UJ	<0.07UJ	<0.07UJ						<140UJ	<70UJ
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg	<0.039	<0.039	<0.039	<0.39	<0.039	<39	<0.078UJ	<0.039UJ	<0.039UJ	<0.039UJ	<0.039UJ						<78	<39UJ
	PHORATE	mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02	<20	<0.04	<0.02UJ	<0.02	<0.02	<0.02						<40	<20
	PHOSMET	mg/kg	<0.067UJ	<0.067UJ	<0.067UJ	<0.67UJ	<0.067UJ	<67UJ	<0.13UJ	<0.067UJ	<0.067UJ	<0.067UJ	<0.067UJ						<130UJ	<67UJ
	RONNEL	mg/kg	<0.046	<0.046	<0.046	<0.46	<0.046	<46	<0.092UJ	<0.046UJ	<0.046UJ	<0.046UJ	<0.046UJ						<92	<46
	STIROPHOS	mg/kg	<0.015	<0.015	<0.015	<0.15	<0.015	<15	<0.03	<0.015UJ	<0.015	<0.015	<0.015						<30	<15
	SULFOTEPP	mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02	<20	<0.04	<0.02UJ	<0.02	<0.02	<0.02						<40	<20
	TETRACHLORVINPHOS	mg/kg																		
	THIONAZIN	mg/kg	<0.018	<0.018	<0.018	<0.18	<0.018	<18	<0.036	<0.018UJ	<0.018	<0.018	<0.018						<36	<18
	TOKUTHION	mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02	<20	<0.04	<0.02UJ	<0.02	<0.02UJ	<0.02UJ						<40	<20
	TRICHLORNATE	mg/kg	<0.02	<0.02	<0.02	<0.2	<0.02	<20	<0.04UJ	<0.02UJ	<0.02UJ	<0.02UJ	<0.02UJ						<40	<20
ORGACIDS	4-CHLOROBENZENESULFONIC ACID	mg/Kg	62	<0.5	18J+	2	0.99	1.8	<0.5	<0.5	<0.5	<0.5	<0.5						1300	3300
[HPLC]	BENZENESULFONIC ACID	mg/Kg	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5						17	<500
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg	<0.5	<0.5	<0.5	1.6	5.6	63	<0.5	<0.5	<0.5	<0.5	<0.5						54	<500
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg	<2.5	<2.5	140	150	<130	<130	<2.5	<2.5	<2.5	<2.5	<2.5						89	<1300
	PHTHALIC ACID	mg/Kg	<0.5	<0.5	1	<0.5	650	340	<0.5	<0.5	<0.5	<0.5	<0.5						220	<500
PCB	AROCLOR-1016	mg/kg	<0.05	<0.05UJ	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
[EPA 8082]	AROCLOR-1221	mg/kg	<0.05	<0.05UJ	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
	AROCLOR-1232	mg/kg	<0.05	<0.05UJ	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
	AROCLOR-1242	mg/kg	<0.05	<0.05	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
	AROCLOR-1248	mg/kg	<0.05	<0.05	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
	AROCLOR-1254	mg/kg	<0.05	<0.05	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
	AROCLOR-1260	mg/kg	<0.05	<0.05	<2.5	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05						<15	<7.6
SVOC	1,1'-SULFONYBIS BENZENE	mg/kg	<6.6	<6.6	3.8	<6.6	<6.6	<6.6	2.3	<6.6	<6.6	<6.6	<6.6						<99	<99
[EPA 8270C/M]	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	8.7	<1.7	<1.7	<1.7	<1.7						2300	770
	1,2,4,5-TETRACHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						100	4
	1,2,4-TRICHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						490	17
	1,2-DICHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						32	1.5
	1,3-DICHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						3.5	<5
	1,4-DICHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						81	4
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg	<0.33	<0.33	2.2	<0.33	<0.33	<0.33	1.1	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																		

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SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						3.7	<5
	2,4-DICHLOROPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						2	<5
	2,4-DIMETHYLPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	2,4-DINITROPHENOL	mg/kg	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66	<0.66UJ						<9.9	<9.9
	2,4-DINITROTOLUENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	2,6-DINITROTOLUENE	mg/kg																		
	2-CHLORONAPHTHALENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	2-CHLOROPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																		
	2-METHYLNAPHTHALENE	mg/kg																		
	2-METHYLPHENOL	mg/kg																		
	2-NITROANILINE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	2-NITROPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	3,3'-DICHLOROBENZIDINE	mg/kg	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83						<12	<12
	3-HEXENE-2,5-DIONE	mg/kg																		
	3-NITROANILINE	mg/kg																		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																		
	4-BROMOPHENYL PHENYL ETHER	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	4-CHLORO-3-METHYLPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	4-CHLOROANILINE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	4-CHLOROBENZENETHIOL	mg/kg	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	4.4	<6.6	<6.6	<6.6	<6.6						69	<99
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg	<0.33	<0.33	6.3	6.4	1.4	22	<0.33	<0.33	<0.33	<0.33	<0.33						550	24
	4-CHLOROPHENYL PHENYL ETHER	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	4-METHYLPHENOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	4-NITROANILINE	mg/kg	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83						<12	<12
	4-NITROPHENOL	mg/kg	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83						<12	<12
	ACENAPHTHENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	ACENAPHTHYLENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	ANILINE	mg/kg																		
	ANTHRACENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	AZOBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	BENZO(A)ANTHRACENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	BENZO(A)PYRENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5UJ
	BENZO(B)FLUORANTHENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5UJ
	BENZO(GHI)PERYLENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5UJ
	BENZO(K)FLUORANTHENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5UJ
	BENZOIC ACID	mg/kg	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83UJ						4	4
	BENZOPHENONE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	BENZYL ALCOHOL	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																		
	BIS(2-CHLOROETHYL)ETHER	mg/kg	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17						<2.5	<2.6
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.84	<0.33	<0.33	<0.33						<4.9	<5
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	32	<0.33	<0.33	<0.33	<0.33						610	89
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.12	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	BUTYL BENZYL PHTHALATE	mg/kg																		
	CHLORAL	mg/kg																		
	CHRYSENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	DIBENZO(A,H)ANTHRACENE	mg/kg	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42						<6.3	<6.3UJ
	DIBENZOFURAN	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	DICHLOROACETALDEHYDE	mg/kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg	<1.7	<1.7	<1.7	<1.7	<1.7	3.3	<1.7	<1.7	<1.7	<1.7	<1.7						<25	<25
	DIETHYL PHTHALATE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	DIMETHYL PHTHALATE	mg/kg	<0.33	<0.33	0.14	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	DIMETHYL SULFOXIDE	mg/kg																		
	DI-N-BUTYL PHTHALATE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.15	<0.33	<0.33						<4.9	<5
	DI-N-OCTYL PHTHALATE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC57 SB-EC-57-40 39.5-40 2/2/2009	SB-EC58 SB-EC-58-0.5 0-0.5 1/29/2009	SB-EC58 SB-EC-58-10 9.5-10 1/29/2009	SB-EC58 SB-EC-58-20 19.5-20 1/29/2009	SB-EC58 SB-EC-58-30 29.5-30 1/29/2009	SB-EC58 SB-EC-58-40 39.5-40 1/30/2009	SB-EC59 SB-EC-59-0.5 0-0.5 2/5/2009	SB-EC59 SB-EC-59-10 9.5-10 2/5/2009	SB-EC59 SB-EC-59-20 19.5-20 2/5/2009	SB-EC59 SB-EC-59-30 29.5-30 2/5/2009	SB-EC59 SB-EC-59-40 39.5-40 2/5/2009	SB-EC-90 SB-EC-90-2.0 1.5-2 11/6/2009	SB-EC-90 SB-EC-90-5.0 5-5.5 11/6/2009	SB-EC-90 SB-EC-90-12.0 12-12.5 11/6/2009	SB-EC-90 SB-EC-90-15.0 15-15.5 11/6/2009	SB-EC-90 SB-EC-90-20.0 19.5-20 11/6/2009	WC-03 WC-03-10 10-12 2/9/2009	WC-03 WC-03-13 13-15 2/9/2009
SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	FLUORENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7						49	<25
	HEXACHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	0.083	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	HEXACHLOROBUTADIENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	HEXACHLOROCYCLOPENTADIENE	mg/kg	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83UJ	<0.83UJ	<0.83UJ	<0.83UJ	<0.83UJ						<12	<12
	HEXACHLOROETHANE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	INDENO(1,2,3-CD)PYRENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5UJ
	ISOPHORONE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	0.077	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	NAPHTHALENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg		<6.6	4.8	<6.6	3.7	3.2	<6.6	<6.6	<6.6	<6.6	<6.6							
	NITROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	N-NITROSODIMETHYLAMINE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25						<3.7	<3.8
	N-NITROSODIPHENYLAMINE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg	<0.33	0.65	1.7	1.3	4.8	0.46	38	0.11	0.31	<0.33	<0.33						190	98
	PENTACHLOROBENZENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						30	<5
	PENTACHLOROPHENOL	mg/kg	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83						<12	<12
	PHENANTHRENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	PHENOL	mg/kg	0.64	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	PHENYL DISULFIDE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33						<4.9	<5
	PYRIDINE	mg/kg	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2						<3	<3
	THIOPHENOL	mg/kg	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6	<6.6						<99	<99
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.046	<0.00056	<0.00053	<0.00055	<0.00051	<0.94UJ	<0.61UJ
	1,1,1-TRICHLOROETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.084	<0.00069	<0.00065	<0.00067	<0.00062	<0.37UJ	<0.24UJ
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.12	<0.00084	<0.0008	<0.00083	<0.00077	<0.37UJ	<0.24UJ
	1,1,2-TRICHLOROETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.12	<0.00085	<0.00081	<0.00084	<0.00077	<0.37UJ	<0.24UJ
	1,1-DICHLOROETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.088	<0.00049	<0.00047	<0.00048	<0.00044	<0.37UJ	<0.24UJ
	1,1-DICHLOROETHENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.11	<0.00059	<0.00056	<0.00058	<0.00053	<0.94UJ	<0.61UJ
	1,1-DICHLOROPROPENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.086	<0.00039	<0.00037	<0.00039	<0.00036	<0.37UJ	<0.24UJ
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	0.00086J	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	0.36	0.0023	0.0028	0.003	0.0016	20J-	9.5J-
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0093	<0.0082UJ	<0.47	<0.48	<0.53	<0.48	<0.0086UJ	<0.0086UJ	<0.0082UJ	<0.018UJ	<0.0084UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<1.9UJ	<1.2UJ
	1,2,4-TRICHLOROBENZENE	mg/kg	0.0027	0.0015J-	0.072	<0.24	<0.26	<0.24	0.031J-	<0.0043UJ	0.0013J-	<0.0091UJ	<0.0042UJ	4.8	0.021	0.023	0.032	0.016	150J-	70J-
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.073	<0.00077	<0.00073	<0.00075	<0.00069	<0.37UJ	<0.24UJ
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.13	<0.0015	<0.0014	<0.0014	<0.0013	<0.94UJ	<0.61UJ
	1,2-DIBROMOETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.088	<0.00079	<0.00074	<0.00077	<0.00071	<0.37UJ	<0.24UJ
	1,2-DICHLOROBENZENE	mg/kg	0.002	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	0.0014J-	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	1.1	0.0032	0.0032	0.0041	0.0043	11J-	7.1J-
	1,2-DICHLOROETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.091	<0.00079	<0.00074	<0.00077	<0.00071	<0.37UJ	<0.24UJ
	1,2-DICHLOROPROPANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.077	<0.00079	<0.00074	<0.00077	<0.00071	<0.37UJ	<0.24UJ
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	0.88J-	0.4J-
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.066	<0.00062	<0.00059	<0.00061	<0.00056	<0.37UJ	<0.24UJ
	1,3-DICHLOROBENZENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.069	<0.00083	<0.00078	0.00089	0.001	1.3J-	0.89J-
	1,3-DICHLOROPROPANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.08	<0.00062	<0.00059	<0.00061	<0.00056	<0.37UJ	<0.24UJ
	1,4-DICHLOROBENZENE	mg/kg	0.0061	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	0.0017J-	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	0.48	0.001	0.0027	0.0045	0.0045	30J-	18J-
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<0.75UJ	<0.48UJ
	2,2-DICHLOROPROPANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.06	<0.00059	<0.00056	<0.00058	<0.00053	<0.37UJ	<0.24UJ
	2,2-DIMETHYLPENTANE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<0.75UJ	<0.48UJ
	2,3-DIMETHYLPENTANE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	0.6J-	0.57J-
	2,4-DIMETHYLPENTANE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<0.75UJ	<0.48UJ
	2-BUTANONE	mg/kg	<0.0093	0.013J	<0.93	<0.96	<1.1	<0.96	0.0067J	<0.0086UJ	<0.0082UJ	<0.018UJ	0.018J	<1.6	<0.0059	<0.0056	<0.0058	<0.0053	<3.7UJ	<2.4UJ
	2-CHLOROTOLUENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.071	<0.00085	<0.00081	<0.00084	<0.00077	<0.94UJ	<0.61UJ
	2-HEXANONE	mg/kg	<0.0093	<0.0082UJ	<0.47	<0.48	<0.53	<0.48	<0.0086UJ	<0.0086UJ	<0.0082UJ	<0.018UJ	<0.0084UJ	<0.22	<0.0089	<0.0085	<0.0088	<0.0081	<1.9UJ	<1.2UJ
	2-METHYLHEXANE	mg/kg	0.015	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	0.0011J-	0.0012J-	0.0072J-	0.0074J-	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	1.5J-	1.4J-
	3,3-DIMETHYLPENTANE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<0.75UJ	<0.48UJ
	3-ETHYLPENTANE	mg/kg	<0.0019	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<0.75UJ	<0.48UJ

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC57 SB-EC-57-40 39.5-40 2/2/2009	SB-EC58 SB-EC-58-0.5 0-0.5 1/29/2009	SB-EC58 SB-EC-58-10 9.5-10 1/29/2009	SB-EC58 SB-EC-58-20 19.5-20 1/29/2009	SB-EC58 SB-EC-58-30 29.5-30 1/29/2009	SB-EC58 SB-EC-58-40 39.5-40 1/30/2009	SB-EC59 SB-EC-59-0.5 0-0.5 2/5/2009	SB-EC59 SB-EC-59-10 9.5-10 2/5/2009	SB-EC59 SB-EC-59-20 19.5-20 2/5/2009	SB-EC59 SB-EC-59-30 29.5-30 2/5/2009	SB-EC59 SB-EC-59-40 39.5-40 2/5/2009	SB-EC-90 SB-EC-90-2.0 1.5-2 11/6/2009	SB-EC-90 SB-EC-90-5.0 5-5.5 11/6/2009	SB-EC-90 SB-EC-90-12.0 12-12.5 11/6/2009	SB-EC-90 SB-EC-90-15.0 15-15.5 11/6/2009	SB-EC-90 SB-EC-90-20.0 19.5-20 11/6/2009	WC-03 WC-03-10 10-12 2/9/2009	WC-03 WC-03-13 13-15 2/9/2009
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	0.017	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	<0.0017UJ	<0.0017UJ	0.0015J-	0.0065J-	0.0052J-	<0.11	<0.00098	0.0011	<0.00096	<0.00089	2.2J-	2J-
	4-CHLOROTOLUENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.071	<0.00073	<0.00069	<0.00071	<0.00066	<0.94UJ	<0.61UJ
	4-METHYL-2-PENTANONE	mg/kg	<0.0046	<0.0041UJ	<0.47	<0.48	<0.53	<0.48	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.86	<0.0044	<0.0042	<0.0043	<0.004	<1.9UJ	<1.2UJ
	ACETONE	mg/kg	0.095	0.082J-	<1.4	<1.4	<1.6	<1.4	0.054J-	0.025J-	0.022J-	0.047J-	0.055J-	<2.4	<0.0079	0.025	0.025	0.036	<5.6UJ	<3.6UJ
	BENZENE	mg/kg	0.056	0.0041J-	2.2	10	8.7	21	0.00065J-	0.0009J-	0.00064J-	0.014J-	0.0079J-	<0.075	0.0013	0.0011	0.0015	0.0035	2.4J-	2.8J-
	BROMOBENZENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.075	<0.00083	<0.00078	<0.00081	<0.00075	<0.94UJ	<0.61UJ
	BROMOCHLOROMETHANE	mg/kg	<0.0046	<0.0041UJ	<0.23UJ	<0.24UJ	<0.26UJ	<0.24UJ	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.11	<0.00088	<0.00084	<0.00087	<0.0008	<0.94UJ	<0.61UJ
	BROMODICHLOROMETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.069	<0.00049	<0.00047	<0.00048	<0.00044	<0.37UJ	<0.24UJ
	BROMOFORM	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.086	<0.00079	<0.00074	<0.00077	<0.00071	<0.94UJ	<0.61UJ
	BROMOMETHANE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.1	<0.0009	<0.00086	<0.00089	<0.00082	<0.94UJ	<0.61UJ
	CARBON DISULFIDE	mg/kg	0.011	<0.0041UJ	0.077	<0.24	<0.26	0.74	<0.0043UJ	<0.0043UJ	0.0024J-	<0.0091UJ	0.0081J-	<0.13	<0.00095	<0.0009	<0.00093	<0.00086	<0.94UJ	<0.61UJ
	CARBON TETRACHLORIDE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.062	<0.00049	<0.00047	<0.00048	<0.00044	<0.94UJ	<0.61UJ
	CHLOROBENZENE	mg/kg	0.23	<0.0016UJ	<0.093	0.2	0.42	2.2	<0.0017UJ	<0.0017UJ	0.0043J-	0.0055J-	0.0029J-	0.2	0.0021	0.0085	0.014	0.025	19J-	22J-
	CHLOROETHANE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.1	<0.0015	<0.0014	<0.0014	0.0013	<0.94UJ	<0.61UJ
	CHLOROFORM	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.097	<0.00049	<0.00047	<0.00048	<0.00044	<0.37UJ	<0.24UJ
	CHLOROMETHANE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	<0.94UJ	<0.61UJ
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00082	<0.00077	<0.0008	<0.00074	<0.37UJ	<0.24UJ
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.08	<0.00043	<0.00041	<0.00042	<0.00039	<0.37UJ	<0.24UJ
	DIBROMOCHLOROMETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.06	<0.00069	<0.00065	<0.00067	<0.00062	<0.37UJ	<0.24UJ
	DIBROMOMETHANE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.093	<0.00088	<0.00084	<0.00087	<0.0008	<0.37UJ	<0.24UJ
	DICHLORODIFLUOROMETHANE	mg/kg	<0.0046	<0.0041UJ	<0.19	<0.19	<0.21	<0.19	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.13	<0.0015	<0.0014	<0.0014	<0.0013	<0.75UJ	<0.48UJ
	DIMETHYL DISULFIDE	mg/kg	1.2	<0.0016UJ	<0.19	<0.19	1.3	2.9	<0.0017UJ	0.012J-	0.02J-	0.77J-	0.46J-	<0.11	0.019	0.18	0.18	0.33	11J-	16J-
	ETHYLBENZENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.06	<0.00049	<0.00047	<0.00048	<0.00044	<0.37UJ	<0.24UJ
	HEXACHLOROBUTADIENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.086	<0.00079	<0.00074	<0.00077	<0.00071	<0.94UJ	<0.61UJ
	ISOPROPYLBENZENE	mg/kg																		
	M,P-XYLENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.12	0.00083	0.00091	<0.00077	<0.00071	<0.37UJ	<0.24UJ
	METHYLENE CHLORIDE	mg/kg	<0.019	<0.016UJ	<0.93	<0.96	<1.1	<0.96	<0.017UJ	<0.017UJ	<0.016UJ	<0.036UJ	<0.017UJ	<0.95	<0.0064	<0.0061	<0.0063	<0.0058	<3.7UJ	<2.4UJ
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.14	<0.00098	<0.00093	<0.00096	<0.00089	<0.94UJ	<0.61UJ
	NAPHTHALENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.18	<0.0011	<0.001	<0.0011	<0.00098	<0.94UJ	<0.61UJ
	N-BUTYLBENZENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.075	<0.00071	<0.00067	<0.00069	<0.00064	<0.94UJ	<0.61UJ
	N-HEPTANE	mg/kg	0.029	<0.0016UJ	<0.19	<0.19	<0.21	<0.19	0.00091J-	0.0011J-	0.0036J-	0.011J-	0.014J-	<0.11	<0.00098	<0.00093	<0.00096	<0.00089	2.8J-	2.5J-
	NONANAL	mg/kg	<0.0093	0.0069J-	<0.47	<0.48	<0.53	<0.48	<0.0086UJ	<0.0086UJ	0.016J-	<0.018UJ	<0.0084UJ	<0.86UJ	<0.0038UJ	<0.0036UJ	<0.0038	<0.0035	<1.9UJ	<1.2UJ
	N-PROPYLBENZENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.08	<0.0006	<0.00057	<0.00059	<0.00054	<0.37UJ	<0.24UJ
	O-XYLENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.062	<0.00049	<0.00047	<0.00048	<0.00044	<0.37UJ	<0.24UJ
	P-ISOPROPYL TOLUENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00071	<0.00067	<0.00069	<0.00064	<0.37UJ	<0.24UJ
	SEC-BUTYLBENZENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.069	<0.00066	<0.00062	<0.00065	<0.0006	<0.94UJ	<0.61UJ
	STYRENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.066	<0.00057	<0.00054	<0.00056	<0.00052	<0.37UJ	<0.24UJ
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.06	<0.00061	<0.00058	<0.0006	<0.00055	<0.94UJ	<0.61UJ
	TETRACHLOROETHENE	mg/kg	0.00069	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.097	0.00051	0.00093	0.0012	0.0014	<0.37UJ	<0.24UJ
	TOLUENE	mg/kg	0.017	0.00056J-	<0.093	<0.096	<0.11	0.039	<0.0017UJ	0.00052J-	0.00064J-	0.0015J-	0.001J-	<0.073	<0.00049	0.00082	0.00085	0.0014	0.73J-	0.89J-
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.11	<0.00069	<0.00065	<0.00067	<0.00062	<0.37UJ	<0.24UJ
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.077	<0.0006	<0.00057	<0.00059	<0.00054	<0.37UJ	<0.24UJ
	TRICHLOROETHENE	mg/kg	<0.0019	<0.0016UJ	<0.093	<0.096	<0.11	<0.096	<0.0017UJ	<0.0017UJ	<0.0016UJ	<0.0036UJ	<0.0017UJ	<0.084	<0.00049	<0.00047	<0.00048	<0.00044	<0.37UJ	<0.24UJ
	TRICHLOROFLUOROMETHANE	mg/kg	<0.0046	<0.0041UJ	<0.23	<0.24	<0.26	<0.24	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.13	<0.00053	<0.0005	<0.00052	<0.00048	<0.94UJ	<0.61UJ
	VINYL CHLORIDE	mg/kg	<0.0046	<0.0041UJ	<0.23UJ	<0.24UJ	<0.26UJ	<0.24UJ	<0.0043UJ	<0.0043UJ	<0.0041UJ	<0.0091UJ	<0.0042UJ	<0.14	<0.00089	<0.00085	<0.00088	<0.00081	<0.94UJ	<0.61UJ

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Group and Method	Analyte	Units	WC-04 WC-04-8.0 8-10 2/9/2009	WCTP-14 WCTP-14 2.5-3.5 5/14/2009	WCTP-20 WCTP-20 2-4 5/14/2009	SB-EC-100 SB-EC-100-2.0 2-2.5 11/11/2009	SB-EC-100 SB-EC-100-5.0 5-5.5 11/11/2009	SB-EC-100 SB-EC-100-10.0 10-10.5 11/11/2009	SB-EC-100 SB-EC-100-15.0 15-15.5 11/11/2009	SB-EC-100 SB-EC-100-20.0 20-20.5 11/11/2009	SB-EC-101 SB-EC-101-2.0 2-2.5 11/12/2009	SB-EC-101 SB-EC-101-5.0 5-5.5 11/12/2009	SB-EC-101 SB-EC-101-10.0 10-10.5 11/12/2009	SB-EC-101 SB-EC-101-15.0 15-15.5 11/12/2009	SB-EC-101 SB-EC-101-20.0 19.5-20 11/12/2009	SB-EC-102 SB-EC-102-2.0 2-2.5 11/12/2009	SB-EC-102 SB-EC-102-3.0 3-3.5 11/12/2009	SB-EC-102 SB-EC-102-5.0 4.5-5 11/12/2009	SB-EC-102 SB-EC-102-10.0 10-10.5 11/12/2009	SB-EC-102 SB-EC-102-15.0 15-15.5 11/12/2009
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																			
	CHLOROACETALDEHYDE	mg/kg																			
	FORMALDEHYDE	mg/kg																			
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT																			
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT																			
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT																			
	SHORT AMPHIBOLE STRUCTURES	COUNT																			
	SHORT ASBESTOS STRUCTURES	COUNT																			
	SHORT CHRYSOTILE STRUCTURES	COUNT																			
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT																			
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT																			
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT																			
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	44																		
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg	1600																		
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg	200																		
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg	140																		
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	<10																		
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg	130																		
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	<8.7																		
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg	88																		
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	<42																		
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg	250																		
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	<25																		
	2,3,7,8-TCDD	ng/kg	<800																		
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg	138.11																		
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg	190																		
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg	<5.4																		
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg	560																		
	HEPTACHLORINATED DIBENZOFURAN	ng/kg	3100																		
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	44																		
	HEXACHLORINATED DIBENZOFURAN	ng/kg	1100																		
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg	60																		
	OCTACHLORINATED DIBENZOFURAN	ng/kg	4500																		
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	67																		
	PENTACHLORINATED DIBENZOFURAN	ng/kg	280																		
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg	<25																		
	TETRACHLORINATED DIBENZOFURAN	ng/kg	720																		
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg	65000																		
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g	16																		
	Fraction organic Carbon	g/g	0.147																		
	Percent Moisture	%	15.8																		
	PH	pH Units	1.49																		
	TOTAL ORGANIC CARBON	mg/kg	146700																		
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																			
	EFH (C8 - C40)	mg/kg																			
	ETHANOL	mg/kg																			
	METHANOL	mg/kg																			
	ORO (C25-C40)	mg/kg																			
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																			
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																			
	CHLORIDE	mg/kg	940																		
	CYANIDE	mg/kg	<0.5																		
	FLUORIDE	mg/kg																			
	IODIDE	mg/kg																			
	NITRATE (AS N)	mg/kg	<22																		
	PH	pH Units	1.67																		
	PHOSPHATE	mg/kg	350000																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg																			
	SULFATE	mg/kg	840J-																		
	TOTAL CARBON	mg/kg																			
	TOTAL INORGANIC CARBON	mg/kg																			
	TOTAL ORGANIC CARBON	mg/Kg																			

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	WC-04 WC-04-8.0 8-10 2/9/2009	WCTP-14 WCTP-14 2.5-3.5 5/14/2009	WCTP-20 WCTP-20 2-4 5/14/2009	SB-EC-100 SB-EC-100-2.0 2-2.5 11/11/2009	SB-EC-100 SB-EC-100-5.0 5-5.5 11/11/2009	SB-EC-100 SB-EC-100-10.0 10-10.5 11/11/2009	SB-EC-100 SB-EC-100-15.0 15-15.5 11/11/2009	SB-EC-100 SB-EC-100-20.0 20-20.5 11/11/2009	SB-EC-101 SB-EC-101-2.0 2-2.5 11/12/2009	SB-EC-101 SB-EC-101-5.0 5-5.5 11/12/2009	SB-EC-101 SB-EC-101-10.0 10-10.5 11/12/2009	SB-EC-101 SB-EC-101-15.0 15-15.5 11/12/2009	SB-EC-101 SB-EC-101-20.0 19.5-20 11/12/2009	SB-EC-102 SB-EC-102-2.0 2-2.5 11/12/2009	SB-EC-102 SB-EC-102-3.0 3-3.5 11/12/2009	SB-EC-102 SB-EC-102-5.0 4.5-5 11/12/2009	SB-EC-102 SB-EC-102-10.0 10-10.5 11/12/2009	SB-EC-102 SB-EC-102-15.0 15-15.5 11/12/2009
METALS	ALUMINUM	mg/kg	2600	200J	6800														360		9200
[EPA 6020, 6010B,	ANTIMONY	mg/kg	31	<0.1	0.75J														0.043UJ		0.033UJ
7471A, 7199]	ARSENIC	mg/kg	1.9	2.7	3	2.2	1.8	2.2	3	4.3	3	3.4	2.7	3.9	3.4	3	3.2	1.2	2.4	3.6
	BARIUM	mg/kg	6.8J-	7.7	150													10J+		170J+
	BERYLLIUM	mg/kg	<0.3	<0.1	0.49													0.038		0.46
	BORON	mg/kg																		
	CADMIUM	mg/kg	<0.5	<0.06	<0.06													0.13		0.53
	CALCIUM	mg/kg	22000	110000	24000															
	CHROMIUM	mg/kg	<1	7.4	13													7.4		15
	COBALT	mg/kg	<0.5	1.7	5.2													1.1		4.5
	COPPER	mg/kg	1.3J+	3.2	9.2													1.9		12
	HEXAVALENT CHROMIUM	mg/kg	<0.2																	
	IRON	mg/kg	1700	490	11000															
	LEAD	mg/kg	1.4	1.4	5.5													0.94		5.8
	MAGNESIUM	mg/kg	7100	170000	7100															
	MANGANESE	mg/kg	2.3	180J	240													220		260
	MERCURY	mg/kg	0.058	<0.012	<0.012															
	MOLYBDENUM	mg/kg																0.2		1.6
	NICKEL	mg/kg	1.3J-	7	13													6		14
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg	53000	240J	34000															
	POTASSIUM	mg/kg	1400																	
	Potassium	mg/kg		170J	2000															
	SELENIUM	mg/kg	<1	6.8	0.34J													3		0.47
	SILVER	mg/kg	<0.5UJ	<0.15	<0.15													0.02J		0.059J
	SODIUM	mg/kg	1500J-	770	1900															
	THALLIUM	mg/kg	<0.5	0.15J	<0.1													0.027U		0.12
	TIN	mg/kg	<10	38J	<1.3															
	TITANIUM	mg/kg	120J	21	410															
	URANIUM	mg/kg																0.26		0.87
	VANADIUM	mg/kg	<1UJ	7.5	30													10J		18J
	ZINC	mg/kg	<10UJ	3J	25													2.3		21
OC PEST	2,4'-DDD	mg/kg	<38			0.13	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015	<0.11	<0.11	<0.0045	<0.022	<0.0015
[EPA 608/8080,	2,4'-DDE	mg/kg	16			1.3	<0.001	<0.001	0.02	<0.001	<0.015	<0.001	<0.002	<0.001	<0.001UJ	<0.075	<0.075	<0.003	<0.015	<0.001
8081A]	2,4'-DDT	mg/kg																		
	4,4'-DDD	mg/kg	<38			0.15	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015UJ	<0.11	<0.11	<0.0045	<0.022	<0.0015
	4,4'-DDE	mg/kg	<38			1.8	<0.0015	<0.0015	0.023	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015UJ	<0.11	<0.11	<0.0045	<0.022	<0.0015
	4,4'-DDT	mg/kg	<38			0.32	<0.0015	<0.0015	0.21	<0.0015	<2.2	<0.15	<0.06	<0.0015	<0.0015	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ALDRIN	mg/kg	<38			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ALPHA-BHC	mg/kg	4500			0.095	0.077	0.037	2.8	0.013	0.15	0.18	0.29	0.0042	0.044J	98	46	4.2	4.2	0.12
	BETA-BHC	mg/kg	470			3.9	0.1	0.006	0.41	0.0035	10	0.76	0.21	<0.0015	0.016J	44	24	2.9	0.82	0.056
	CHLORDANE	mg/kg	<380			<0.015	<0.01	<0.01	<0.075	<0.01	<0.15	<0.01	<0.02	<0.01	<0.01	<0.75	<0.75	<0.03	<0.15	<0.01
	DELTA-BHC	mg/kg	87			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	0.0034J+	<0.0015	<0.0015UJ	<0.11	0.11	0.009	<0.022	0.0017
	DIELDRIN	mg/kg	<38			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015UJ	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ENDOSULFAN I	mg/kg	<38			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015UJ	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ENDOSULFAN II	mg/kg	<38			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015UJ	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ENDOSULFAN SULFATE	mg/kg	<75			<0.003	<0.002	<0.002	<0.015	<0.002	<0.03	<0.002	<0.004	<0.002	<0.002UJ	<0.15	<0.15	<0.006	<0.03	<0.002
	ENDRIN	mg/kg	<38			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ENDRIN ALDEHYDE	mg/kg	<38			<0.0022	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015UJ	<0.11	<0.11	<0.0045	<0.022	<0.0015
	ENDRIN KETONE	mg/kg	<38			<0.003	<0.002	<0.002	<0.015	<0.002	<0.03	<0.002	<0.004	<0.002	<0.002	<0.15	<0.15	<0.006	<0.03	<0.002
	GAMMA-BHC (LINDANE)	mg/kg	210			<0.0022	<0.0015	<0.0015	0.037	<0.0015	<0.022	0.01	0.011J+	<0.0015	<0.0015	<0.11	0.54	0.012	0.051	0.0033
	HEPTACHLOR	mg/kg	<38			<0.003	<0.002	<0.002	<0.015	<0.002	<0.03	<0.002	<0.004	<0.002	<0.002	<0.15	<0.15	<0.006	<0.03	<0.002
	HEPTACHLOR EPOXIDE	mg/kg	<38			<0.003	<0.002	<0.002	<0.015	<0.002	<0.03	<0.002	<0.004	<0.002	<0.002UJ	<0.15	<0.15	<0.006	<0.03	<0.002
	METHOXYCHLOR	mg/kg	<38			<0.0022UJ	<0.0015	<0.0015	<0.011	<0.0015	<0.022	<0.0015	<0.003	<0.0015	<0.0015	<0.11	<0.11	<0.0045	<0.022	<0.0015
	TOXAPHENE	mg/kg	<1500UJ			<0.075	<0.05	<0.05	<0.38	<0.05	<0.75	<0.05	<0.1	<0.05	<0.05	<3.8	<3.8	<0.15	<0.75	<0.05

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OP PEST	AZINPHOS-METHYL	mg/kg	<0.26																		
[EPA 8141A]	BOLSTAR	mg/kg	<0.26																		
	CARBOPHENOTHION (TRITHION)	mg/kg	<0.66																		
	CHLORPYRIFOS	mg/kg	<0.4																		
	COUMAPHOS	mg/kg	<0.26																		
	DEMETON	mg/kg	<0.78																		
	DEMETON-O	mg/kg	<0.78																		
	DIAZINON	mg/kg	<0.44																		
	DICHLORVOS	mg/kg	<0.46																		
	DIMETHOATE	mg/kg	<0.44																		
	DISULFOTON	mg/kg	<0.96UJ																		
	EPN	mg/kg	<0.26																		
	ETHION	mg/kg																			
	ETHOPROP	mg/kg	<0.3																		
	ETHYL PARATHION	mg/kg	<0.36																		
	FAMPHUR	mg/kg	<0.26																		
	FENSULFOTHION	mg/kg	<0.5																		
	FENTHION	mg/kg	<0.66																		
	MALATHION	mg/kg	<0.3																		
	MERPHOS	mg/kg	<0.6																		
	METHYL CARBOPHENOTHION	mg/kg	<0.66UJ																		
	METHYL PARATHION	mg/kg	<0.4																		
	MEVINPHOS	mg/kg	<0.3UJ																		
	NALED	mg/kg	<1.4UJ																		
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg	<0.78																		
	PHORATE	mg/kg	<0.4																		
	PHOSMET	mg/kg	<1.3UJ																		
	RONNEL	mg/kg	<0.92																		
	STIROPHOS	mg/kg	<0.3																		
	SULFOTEPP	mg/kg	<0.4																		
	TETRACHLORVINPHOS	mg/kg																			
	THIONAZIN	mg/kg	<0.36																		
	TOKUTHION	mg/kg	<0.4																		
	TRICHLORNATE	mg/kg	<0.4																		
ORGACIDS	4-CHLOROBENZENESULFONIC ACID	mg/Kg	130000																		
[HPLC]	BENZENESULFONIC ACID	mg/Kg	<5000																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg	<5000																		
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg	<13000																		
	PHTHALIC ACID	mg/Kg	<5000																		
PCB	AROCLOR-1016	mg/kg	<3700																		
[EPA 8082]	AROCLOR-1221	mg/kg	<3700																		
	AROCLOR-1232	mg/kg	<3700																		
	AROCLOR-1242	mg/kg	<3700																		
	AROCLOR-1248	mg/kg	<3700																		
	AROCLOR-1254	mg/kg	<3700																		
	AROCLOR-1260	mg/kg	<3700																		
SVOC	1,1'-SULFONYBIS BENZENE	mg/kg	17000																		
[EPA 8270C/M]	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg	<250																		
	1,2,4,5-TETRACHLOROBENZENE	mg/kg	<49																		
	1,2,4-TRICHLOROBENZENE	mg/kg	31																		
	1,2-DICHLOROBENZENE	mg/kg	<49																		
	1,3-DICHLOROBENZENE	mg/kg	<49																		
	1,4-DICHLOROBENZENE	mg/kg	<49																		
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg	<49																		
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																			

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SVOC	2,4,5-TRICHLOROPHENOL	mg/kg	<49																		
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg	<49																		
	2,4-DICHLOROPHENOL	mg/kg	<49																		
	2,4-DIMETHYLPHENOL	mg/kg	<49																		
	2,4-DINITROPHENOL	mg/kg	<98																		
	2,4-DINITROTOLUENE	mg/kg	<49																		
	2,6-DINITROTOLUENE	mg/kg																			
	2-CHLORONAPHTHALENE	mg/kg	<49																		
	2-CHLOROPHENOL	mg/kg	<49																		
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																			
	2-METHYLNAPHTHALENE	mg/kg																			
	2-METHYLPHENOL	mg/kg																			
	2-NITROANILINE	mg/kg	<49																		
	2-NITROPHENOL	mg/kg	<49																		
	3,3'-DICHLOROBENZIDINE	mg/kg	<120																		
	3-HEXENE-2,5-DIONE	mg/kg																			
	3-NITROANILINE	mg/kg																			
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																			
	4-BROMOPHENYL PHENYL ETHER	mg/kg	<49																		
	4-CHLORO-3-METHYLPHENOL	mg/kg	<49																		
	4-CHLOROANILINE	mg/kg	<49																		
	4-CHLOROBENZENETHIOL	mg/kg	720																		
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg	23																		
	4-CHLOROPHENYL PHENYL ETHER	mg/kg	<49																		
	4-METHYLPHENOL	mg/kg	<49																		
	4-NITROANILINE	mg/kg	<120																		
	4-NITROPHENOL	mg/kg	<120																		
	ACENAPHTHENE	mg/kg	<49																		
	ACENAPHTHYLENE	mg/kg	<49																		
	ANILINE	mg/kg																			
	ANTHRACENE	mg/kg	<49																		
	AZOBENZENE	mg/kg	<49																		
	BENZO(A)ANTHRACENE	mg/kg	<49																		
	BENZO(A)PYRENE	mg/kg	<49																		
	BENZO(B)FLUORANTHENE	mg/kg	53																		
	BENZO(GHI)PERYLENE	mg/kg	<49																		
	BENZO(K)FLUORANTHENE	mg/kg	<49																		
	BENZOIC ACID	mg/kg	<120																		
	BENZOPHENONE	mg/kg	<49																		
	BENZYL ALCOHOL	mg/kg	<49																		
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																			
	BIS(2-CHLOROETHYL)ETHER	mg/kg	<25																		
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg	<49																		
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg	<49																		
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg	48000																		
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg	<49																		
	BUTYL BENZYL PHTHALATE	mg/kg																			
	CHLORAL	mg/kg																			
	CHRYSENE	mg/kg	12																		
	DIBENZO(A,H)ANTHRACENE	mg/kg	<62																		
	DIBENZOFURAN	mg/kg	<49																		
	DICHLOROACETALDEHYDE	mg/kg																			
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg	<250																		
	DIETHYL PHTHALATE	mg/kg	<49																		
	DIMETHYL PHTHALATE	mg/kg	<49																		
	DIMETHYL SULFOXIDE	mg/kg																			
	DI-N-BUTYL PHTHALATE	mg/kg	<49																		
	DI-N-OCTYL PHTHALATE	mg/kg	<49																		

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	WC-04 WC-04-8.0 8-10 2/9/2009	WCTP-14 WCTP-14 2.5-3.5 5/14/2009	WCTP-20 WCTP-20 2-4 5/14/2009	SB-EC-100 SB-EC-100-2.0 2-2.5 11/11/2009	SB-EC-100 SB-EC-100-5.0 5-5.5 11/11/2009	SB-EC-100 SB-EC-100-10.0 10-10.5 11/11/2009	SB-EC-100 SB-EC-100-15.0 15-15.5 11/11/2009	SB-EC-100 SB-EC-100-20.0 20-20.5 11/11/2009	SB-EC-101 SB-EC-101-2.0 2-2.5 11/12/2009	SB-EC-101 SB-EC-101-5.0 5-5.5 11/12/2009	SB-EC-101 SB-EC-101-10.0 10-10.5 11/12/2009	SB-EC-101 SB-EC-101-15.0 15-15.5 11/12/2009	SB-EC-101 SB-EC-101-20.0 19.5-20 11/12/2009	SB-EC-102 SB-EC-102-2.0 2-2.5 11/12/2009	SB-EC-102 SB-EC-102-3.0 3-3.5 11/12/2009	SB-EC-102 SB-EC-102-5.0 4.5-5 11/12/2009	SB-EC-102 SB-EC-102-10.0 10-10.5 11/12/2009	SB-EC-102 SB-EC-102-15.0 15-15.5 11/12/2009
SVOC	FLUORANTHENE	mg/kg	14																	
[EPA 8270C/M]	FLUORENE	mg/kg	<49																	
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg	<250																	
	HEXACHLOROBENZENE	mg/kg	<49																	
	HEXACHLOROBUTADIENE	mg/kg	<49																	
	HEXACHLOROCYCLOPENTADIENE	mg/kg	<120																	
	HEXACHLOROETHANE	mg/kg	<49																	
	INDENO(1,2,3-CD)PYRENE	mg/kg	<49																	
	ISOPHORONE	mg/kg	<49																	
	NAPHTHALENE	mg/kg	<49																	
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg																		
	NITROBENZENE	mg/kg	<49																	
	N-NITROSODIMETHYLAMINE	mg/kg	<49																	
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg	<37																	
	N-NITROSODIPHENYLAMINE	mg/kg	<49																	
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg	85000																	
	PENTACHLOROBENZENE	mg/kg	<49																	
	PENTACHLOROPHENOL	mg/kg	<120																	
	PHENANTHRENE	mg/kg	15																	
	PHENOL	mg/kg	<49																	
	PHENYL DISULFIDE	mg/kg	40																	
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg	<49																	
	PYRIDINE	mg/kg	<30																	
	THIOPHENOL	mg/kg	<980																	
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.99UJ			<0.00054	<0.00061	<0.0005	<0.00047	<0.044	<0.00055	<0.00048	<0.0005	<0.0005	<0.00048	<0.00051	<0.037	<0.00063	<0.00048	<0.00051
[EPA 8260B]	1,1,1-TRICHLOROETHANE	mg/kg	<0.39UJ			<0.00067	<0.00075	<0.00061	<0.00058	<0.079	<0.00068	<0.00059	<0.00061	<0.00062	<0.00059	<0.00062	<0.067	<0.00077	<0.00059	<0.00063
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.39UJ			<0.00082	<0.00092	<0.00075	<0.00071	<0.11	<0.00083	<0.00072	<0.00075	<0.00076	<0.00072	<0.00076	<0.095	<0.00095	<0.00073	<0.00077
	1,1,2-TRICHLOROETHANE	mg/kg	<0.39UJ			<0.00083	<0.00093	<0.00076	<0.00072	<0.11	<0.00084	<0.00073	<0.00076	<0.00077	<0.00073	<0.00077	<0.093	<0.00096	<0.00073	<0.00078
	1,1-DICHLOROETHANE	mg/kg	<0.39UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.083	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.07	<0.00055	<0.00042	<0.00045
	1,1-DICHLOROETHENE	mg/kg	<0.99UJ			<0.00057	<0.00064	<0.00052	<0.0005	<0.1	<0.00058	<0.0005	<0.00052	<0.00053	<0.0005	<0.00053	<0.084	<0.00066	<0.00051	<0.00054
	1,1-DICHLOROPROPENE	mg/kg	<0.39UJ			<0.00038	<0.00043	<0.00035	<0.00033	<0.081	<0.00039	<0.00034	<0.00035	<0.00035	<0.00033	<0.00035	<0.069	<0.00044	<0.00034	<0.00036
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.99UJ			0.014	0.0021	0.0014	0.0017	<0.12UJ	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	0.0089	0.17J	0.0028	<0.00084	<0.00089
	1,2,3-TRICHLOROPROPANE	mg/kg	<2UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.084	<0.0011	<0.00084	<0.00089
	1,2,4-TRICHLOROBENZENE	mg/kg	2.6J-			0.35	0.053	0.039	0.037	<0.11UJ	<0.00097	<0.00084	0.0017	<0.00088	<0.00084	0.79J	4J	0.075	0.0012	0.0039
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.39UJ			<0.00075	<0.00084	<0.00068	<0.00065	<0.069	<0.00075	<0.00065	<0.00068	<0.00069	<0.00065	<0.00069	<0.058	<0.00086	<0.00066	<0.0007
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.99UJ			<0.0014	<0.0016	<0.0013	<0.0012	<0.12	<0.0015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.1	<0.0017	<0.0013	<0.0013
	1,2-DIBROMOETHANE	mg/kg	<0.39UJ			<0.00076	<0.00086	<0.0007	<0.00066	<0.083UJ	<0.00077	<0.00067	<0.0007	<0.00071	<0.00067	<0.00071	<0.07UJ	<0.00088	<0.00067	<0.00072
	1,2-DICHLOROBENZENE	mg/kg	4.6J-			<0.00091	<0.001	<0.00083	<0.00079	<0.067	<0.00092	<0.0008	<0.00083	<0.00084	<0.00079	0.001	<0.056	<0.001	<0.0008	<0.00085
	1,2-DICHLOROETHANE	mg/kg	<0.39UJ			<0.00076	<0.00086	<0.0007	<0.00066	<0.085	<0.00077	<0.00067	<0.0007	<0.00071	<0.00067	<0.00071	<0.072	<0.00088	<0.00067	<0.00072
	1,2-DICHLOROPROPANE	mg/kg	<0.39UJ			<0.00076	<0.00086	<0.0007	<0.00066	<0.073	<0.00077	<0.00067	<0.0007	<0.00071	<0.00067	<0.00071	<0.062	<0.00088	<0.00067	<0.00072
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.39UJ			<0.0006	<0.00068	<0.00055	<0.00052	<0.062	<0.00061	<0.00053	<0.00055	<0.00056	<0.00053	<0.00056	<0.053	<0.0007	<0.00053	<0.00056
	1,3-DICHLOROBENZENE	mg/kg	0.13J-			<0.0008	<0.0009	<0.00073	<0.0007	<0.065	<0.00081	<0.0007	<0.00073	<0.00074	<0.0007	<0.00074	<0.054	<0.00093	<0.00071	<0.00075
	1,3-DICHLOROPROPANE	mg/kg	<0.39UJ			<0.0006	<0.00068	<0.00055	<0.00052	<0.075	<0.00061	<0.00053	<0.00055	<0.00056	<0.00053	<0.00056	<0.063UJ	<0.0007	<0.00053	<0.00056
	1,4-DICHLOROBENZENE	mg/kg	1.9J-			<0.0009	<0.001	<0.00082	<0.00078	<0.071	<0.00091	<0.00079	<0.00082	<0.00083	<0.00079	<0.00083	<0.06	<0.001	<0.00079	<0.00084
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	2,2-DICHLOROPROPANE	mg/kg	<0.39UJ			<0.00057	<0.00064	<0.00052	<0.0005	<0.056	<0.00058	<0.0005	<0.00052	<0.00053	<0.0005	<0.00053	<0.047	<0.00066	<0.00051	<0.00054
	2,2-DIMETHYLPENTANE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	2,3-DIMETHYLPENTANE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	2,4-DIMETHYLPENTANE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	2-BUTANONE	mg/kg	<3.9UJ			<0.0057	<0.0064	<0.0052	<0.005	<1.5	<0.0058	<0.005	<0.0052	<0.0053	<0.005	<0.0053	<1.3	<0.0066	<0.0051	<0.0054
	2-CHLOROTOLUENE	mg/kg	<0.99UJ			<0.00083	<0.00093	<0.00076	<0.00072	<0.067	<0.00084	<0.00073	<0.00076	<0.00077	<0.00073	<0.00077	<0.056	<0.00096	<0.00073	<0.00078
	2-HEXANONE	mg/kg	<2UJ			<0.0087	<0.0098	<0.008	<0.0075	<0.21	<0.0088	<0.0076	<0.0079	<0.008	<0.0076	<0.0081	<0.18	<0.01	<0.0077	<0.0081
	2-METHYLHEXANE	mg/kg	<0.79UJ			0.0031	<0.0011	0.0038	0.0037	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	3,3-DIMETHYLPENTANE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	3-ETHYLPENTANE	mg/kg	<0.79UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	WC-04	WCTP-14	WCTP-20	SB-EC-100	SB-EC-100	SB-EC-100	SB-EC-100	SB-EC-100	SB-EC-101	SB-EC-101	SB-EC-101	SB-EC-101	SB-EC-101	SB-EC-102	SB-EC-102	SB-EC-102	SB-EC-102	SB-EC-102
			WC-04-8.0	WCTP-14	WCTP-20	SB-EC-100-2.0	SB-EC-100-5.0	SB-EC-100-10.0	SB-EC-100-15.0	SB-EC-100-20.0	SB-EC-101-2.0	SB-EC-101-5.0	SB-EC-101-10.0	SB-EC-101-15.0	SB-EC-101-20.0	SB-EC-102-2.0	SB-EC-102-3.0	SB-EC-102-5.0	SB-EC-102-10.0	SB-EC-102-15.0
			8-10	2.5-3.5	2-4	2-2.5	5-5.5	10-10.5	15-15.5	20-20.5	2-2.5	5-5.5	10-10.5	15-15.5	19.5-20	2-2.5	3-3.5	4.5-5	10-10.5	15-15.5
			2/9/2009	5/14/2009	5/14/2009	11/11/2009	11/11/2009	11/11/2009	11/11/2009	11/11/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	<0.79UJ			0.0052	<0.0011	0.0054	0.005	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	4-CHLOROTOLUENE	mg/kg	<0.99UJ			<0.00071	<0.00079	<0.00065	<0.00061	<0.067	<0.00072	<0.00062	<0.00064	<0.00065	<0.00062	<0.00066	<0.056	<0.00082	<0.00062	<0.00066
	4-METHYL-2-PENTANONE	mg/kg	<2UJ			<0.0043	<0.0048	<0.0039	<0.0037	<0.81	<0.0044	<0.0038	<0.0039	<0.004	<0.0038	<0.004	<0.69	<0.005	<0.0038	<0.004
	ACETONE	mg/kg	<5.9UJ			<0.0076	<0.0086	0.013	0.028	<2.3	<0.0077	<0.0067	<0.007	<0.0071	<0.0067	<0.0071	<1.9	<0.0088	<0.0067	<0.0072
	BENZENE	mg/kg	0.58J-			0.017	0.0023	0.61	0.75	1.8	<0.00048	<0.00042	0.0022	<0.00044	<0.00042	0.0008	<0.06	<0.00055	<0.00042	0.00054
	BROMOBENZENE	mg/kg	<0.99UJ			<0.0008	<0.0009	<0.00073	<0.0007	<0.071	<0.00081	<0.0007	<0.00073	<0.00074	<0.0007	<0.00074	<0.06	<0.00093	<0.00071	<0.00075
	BROMOCHLOROMETHANE	mg/kg	<0.99UJ			<0.00086	<0.00097	<0.00079	<0.00075	<0.1	<0.00087	<0.00075	<0.00078	<0.0008	<0.00075	<0.0008	<0.088	<0.00099	<0.00076	<0.00081
	BROMODICHLOROMETHANE	mg/kg	<0.39UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.065	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.054	<0.00055	<0.00042	<0.00045
	BROMOFORM	mg/kg	<0.99UJ			<0.00076	<0.00086	<0.0007	<0.00066	<0.081	<0.00077	<0.00067	<0.0007	<0.00071	<0.00067	<0.00071	<0.069	<0.00088	<0.00067	<0.00072
	BROMOMETHANE	mg/kg	<0.99UJ			<0.00088	<0.00099	<0.0008	<0.00076	<0.094	<0.00089	<0.00077	<0.0008	<0.00081	<0.00077	<0.00082	<0.079	<0.001	<0.00078	<0.00082
	CARBON DISULFIDE	mg/kg	<0.99UJ			<0.00093	<0.001	0.0018	0.0025	<0.12	<0.00094	<0.00081	<0.00084	<0.00086	<0.00081	<0.00086	<0.1	<0.0011	<0.00082	0.00097
	CARBON TETRACHLORIDE	mg/kg	<0.99UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.058	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.049	<0.00055	<0.00042	<0.00045
	CHLOROBENZENE	mg/kg	120J-			0.008	0.0023	0.02	0.026	0.2	<0.0005	<0.00044	0.0011	0.00099	<0.00043	0.00059	<0.053	<0.00057	0.00047	0.0035
	CHLOROETHANE	mg/kg	<0.99UJ			0.0026	0.0023	0.004	0.003	<0.094	<0.0015	<0.0013	<0.0013	<0.0013	<0.0013	0.002	<0.079	0.0036	0.0013	0.0014
	CHLOROFORM	mg/kg	<0.39UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.092	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.077	<0.00055	<0.00042	<0.00045
	CHLOROMETHANE	mg/kg	<0.99UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.39UJ			<0.00079	<0.00089	<0.00073	<0.00069	<0.1	<0.0008	<0.0007	<0.00072	<0.00073	<0.00069	<0.00074	<0.084	<0.00092	<0.0007	<0.00074
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.39UJ			<0.00042	<0.00047	<0.00038	<0.00036	<0.075	<0.00043	<0.00037	<0.00038	<0.00039	<0.00037	<0.00039	<0.063	<0.00049	<0.00037	<0.00039
	DIBROMOCHLOROMETHANE	mg/kg	<0.39UJ			<0.00067	<0.00075	<0.00061	<0.00058	<0.056UJ	<0.00068	<0.00059	<0.00061	<0.00062	<0.00059	<0.00062	<0.047UJ	<0.00077	<0.00059	<0.00063
	DIBROMOMETHANE	mg/kg	<0.39UJ			<0.00086	<0.00097	<0.00079	<0.00075	<0.088	<0.00087	<0.00075	<0.00078	<0.0008	<0.00075	<0.0008	<0.074	<0.00099	<0.00076	<0.00081
	DICHLORODIFLUOROMETHANE	mg/kg	<0.79UJ			<0.0014	<0.0016	<0.0013	<0.0012	<0.13	<0.0015	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013	<0.11	<0.0017	<0.0013	<0.0013
	DIMETHYL DISULFIDE	mg/kg	<0.79UJ			0.0028	0.0036	0.15	0.15	1.1	<0.00097	<0.00084	0.0025	<0.00088	0.0023	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	ETHYLBENZENE	mg/kg	<0.39UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.056	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.047	<0.00055	<0.00042	<0.00045
	HEXACHLOROBUTADIENE	mg/kg	<0.99UJ			<0.00076	<0.00086	<0.0007	<0.00066	<0.081UJ	<0.00077	<0.00067	<0.0007	<0.00071	<0.00067	<0.00071	<0.069UJ	<0.00088	<0.00067	<0.00072
	ISOPROPYLBENZENE	mg/kg																		
	M,P-XYLENE	mg/kg	<0.39UJ			<0.00076	<0.00086	<0.0007	<0.00066	<0.11	<0.00077	<0.00067	<0.0007	<0.00071	<0.00067	0.00076	<0.093	<0.00088	<0.00067	<0.00072
	METHYLENE CHLORIDE	mg/kg	<3.9UJ			<0.0062	<0.007	<0.0057	<0.0054	<0.9	<0.0063	<0.0054	<0.0057	<0.0057	<0.0054	<0.0058	<0.76	<0.0072	<0.0055	<0.0058
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.99UJ			<0.00096	<0.0011	<0.00087	<0.00083	<0.13	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.11	<0.0011	<0.00084	<0.00089
	NAPHTHALENE	mg/kg	<0.99UJ			<0.0011	<0.0012	<0.00096	<0.00091	<0.17	<0.0011	<0.00092	<0.00096	<0.00097	<0.00092	<0.00098	<0.14	<0.0012	<0.00093	<0.00098
	N-BUTYLBENZENE	mg/kg	<0.99UJ			<0.00069	<0.00077	<0.00063	<0.0006	<0.071	<0.0007	<0.0006	<0.00063	<0.00064	<0.0006	<0.00064	<0.06	<0.00079	<0.00061	<0.00064
	N-HEPTANE	mg/kg	<0.79UJ			0.0022	<0.0011	0.0044	0.0037	<0.1	<0.00097	<0.00084	<0.00087	<0.00088	<0.00084	<0.00089	<0.088	<0.0011	<0.00084	<0.00089
	NONANAL	mg/kg	<2UJ			<0.0037	<0.0042	<0.0034	<0.0032	<0.81	<0.0038	<0.0033	<0.0034	<0.0034	<0.0033	<0.0035	<0.69	<0.0043	<0.0033	<0.0035
	N-PROPYLBENZENE	mg/kg	<0.39UJ			<0.00058	<0.00065	<0.00053	<0.00051	<0.075	<0.00059	<0.00051	<0.00053	<0.00054	<0.00051	<0.00054	<0.063	<0.00067	<0.00051	<0.00055
	O-XYLENE	mg/kg	<0.39UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.058UJ	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.049	<0.00055	<0.00042	<0.00045
	P-ISOPROPYL TOLUENE	mg/kg	<0.39UJ			<0.00069	<0.00077	<0.00063	<0.0006	<0.1	<0.0007	<0.0006	<0.00063	<0.00064	<0.0006	<0.00064	<0.084	<0.00079	<0.00061	<0.00064
	SEC-BUTYLBENZENE	mg/kg	<0.99UJ			<0.00064	<0.00072	<0.00059	<0.00056	<0.065	<0.00065	<0.00056	<0.00058	<0.00059	<0.00056	<0.00059	<0.054	<0.00074	<0.00056	<0.0006
	STYRENE	mg/kg	<0.39UJ			<0.00055	<0.00062	<0.00051	<0.00048	<0.062	<0.00056	<0.00049	<0.0005	<0.00051	<0.00048	<0.00051	<0.053	<0.00064	<0.00049	<0.00052
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.99UJ			<0.00059	<0.00067	<0.00054	<0.00051	<0.056	<0.0006	<0.00052	<0.00054	<0.00055	<0.00052	<0.00055	<0.047	<0.00068	<0.00052	<0.00055
	TETRACHLOROETHENE	mg/kg	<0.39UJ			<0.00047	<0.00053	<0.00043	<0.00041	<0.092UJ	<0.00047	<0.00041	<0.00043	<0.00043	<0.00041	<0.00043	<0.077UJ	<0.00054	<0.00041	<0.00044
	TOLUENE	mg/kg	<0.39UJ			<0.00048	<0.00054	0.0017	0.0022	<0.069	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.058	<0.00055	<0.00042	<0.00045
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.39UJ			<0.00067	<0.00075	<0.00061	<0.00058	<0.1	<0.00068	<0.00059	<0.00061	<0.00062	<0.00059	<0.00062	<0.088	<0.00077	<0.00059	<0.00063
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.39UJ			<0.00058	<0.00065	<0.00053	<0.00051	<0.073	<0.00059	<0.00051	<0.00053	<0.00054	<0.00051	<0.00054	<0.062	<0.00067	<0.00051	<0.00055
	TRICHLOROETHENE	mg/kg	<0.39UJ			<0.00048	<0.00054	<0.00044	<0.00041	<0.079	<0.00048	<0.00042	<0.00043	<0.00044	<0.00042	<0.00044	<0.067	<0.00055	<0.00042	<0.00045
	TRICHLOROFLUOROMETHANE	mg/kg	<0.99UJ			<0.00052	<0.00058	<0.00047	<0.00045	<0.12	<0.00052	<0.00045	<0.00047	<0.00048	<0.00045	<0.00048	<0.1	<0.0006	<0.00046	<0.00048
	VINYL CHLORIDE	mg/kg	<0.99UJ			<0.00087	<0.00098	<0.0008	<0.00075	<0.14	<0.00088	<0.00076	<0.00079	<0.0008	<0.00076	<0.00081	<0.11	<0.001	<0.00077	<0.00081

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-102	SB-EC-102	SB-EC-102	SB-EC-102	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-89	SB-EC-89	SB-EC-89	SB-EC-89	SB-EC-89
			SB-EC-102-20.0	SB-EC-102-25.0	SB-EC-102-30.0	SB-EC-102-35.0	SB-EC-103-2.0	SB-EC-103-3.0	SB-EC-103-5.0	SB-EC-103-10.0	SB-EC-103-15.0	SB-EC-103-20.0	SB-EC-103-25.0	SB-EC-103-30.0	SB-EC-103-35.0	SB-EC-89-2.0	SB-EC-89-5.0	SB-EC-89-10.0	SB-EC-89-15.0	SB-EC-89-20.0
			20-20.5	24.5-25	30-30.5	35-35.5	2-2.5	3-3.5	5-5.5	10-10.5	15-15.5	20-20.5	25-25.5	30-30.5	35-35.5	1.5-2	5-5.5	10-10.5	15-15.5	19.5-20
			11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																		
	CHLOROACETALDEHYDE	mg/kg																		
	FORMALDEHYDE	mg/kg																		
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT																		
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT																		
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT																		
	SHORT AMPHIBOLE STRUCTURES	COUNT																		
	SHORT ASBESTOS STRUCTURES	COUNT																		
	SHORT CHRYSOTILE STRUCTURES	COUNT																		
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT																		
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT																		
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT																		
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg																		
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg																		
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg																		
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	2,3,7,8-TCDD	ng/kg																		
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg																		
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg																		
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg																		
	HEPTACHLORINATED DIBENZOFURAN	ng/kg																		
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	OCTACHLORINATED DIBENZOFURAN	ng/kg																		
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	PENTACHLORINATED DIBENZOFURAN	ng/kg																		
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	TETRACHLORINATED DIBENZOFURAN	ng/kg																		
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g																		
	Fraction organic Carbon	g/g																		
	Percent Moisture	%																		
	PH	pH Units																		
	TOTAL ORGANIC CARBON	mg/kg																		
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																		
	EFH (C8 - C40)	mg/kg																		
	ETHANOL	mg/kg																		
	METHANOL	mg/kg																		
	ORO (C25-C40)	mg/kg																		
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																		
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																		
	CHLORIDE	mg/kg																		
	CYANIDE	mg/kg																		
	FLUORIDE	mg/kg																		
	IODIDE	mg/kg																		
	NITRATE (AS N)	mg/kg																		
	PH	pH Units																		
	PHOSPHATE	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	SULFATE	mg/kg																		
	TOTAL CARBON	mg/kg																		
	TOTAL INORGANIC CARBON	mg/kg																		
	TOTAL ORGANIC CARBON	mg/Kg																		

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Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-102 SB-EC-102-20.0 20-20.5 11/12/2009	SB-EC-102 SB-EC-102-25.0 24.5-25 11/12/2009	SB-EC-102 SB-EC-102-30.0 30-30.5 11/12/2009	SB-EC-102 SB-EC-102-35.0 35-35.5 11/12/2009	SB-EC-103 SB-EC-103-2.0 2-2.5 11/12/2009	SB-EC-103 SB-EC-103-3.0 3-3.5 11/12/2009	SB-EC-103 SB-EC-103-5.0 5-5.5 11/12/2009	SB-EC-103 SB-EC-103-10.0 10-10.5 11/12/2009	SB-EC-103 SB-EC-103-15.0 15-15.5 11/12/2009	SB-EC-103 SB-EC-103-20.0 20-20.5 11/12/2009	SB-EC-103 SB-EC-103-25.0 25-25.5 11/12/2009	SB-EC-103 SB-EC-103-30.0 30-30.5 11/12/2009	SB-EC-103 SB-EC-103-35.0 35-35.5 11/12/2009	SB-EC-89 SB-EC-89-2.0 1.5-2 11/6/2009	SB-EC-89 SB-EC-89-5.0 5-5.5 11/6/2009	SB-EC-89 SB-EC-89-10.0 10-10.5 11/6/2009	SB-EC-89 SB-EC-89-15.0 15-15.5 11/6/2009	SB-EC-89 SB-EC-89-20.0 19.5-20 11/6/2009
METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg			6500				16000		8200			7100						
	ANTIMONY	mg/kg			0.021UJ				1.4J-		0.017UJ			<0.014UJ						
	ARSENIC	mg/kg	3.1	2.9	3.1	3.5	3.6	3.6	3.9	5.1	5.3	3.5	3.5	2.5	4.6	2.9	2.6	2.4	2.6	2.2
	BARIUM	mg/kg			120J+				240J+		130J+			120J+						
	BERYLLIUM	mg/kg			0.3				0.33		0.47			0.25						
	BORON	mg/kg																		
	CADMIUM	mg/kg			0.5				0.32		0.51			0.38						
	CALCIUM	mg/kg																		
	CHROMIUM	mg/kg			5.9				22		7			6.3						
	COBALT	mg/kg			3.3				2.6		4.3			4.4						
	COPPER	mg/kg			8.7				6.7		8.5			11						
	HEXAVALENT CHROMIUM	mg/kg																		
	IRON	mg/kg																		
	LEAD	mg/kg			4.7				6.5		5.4			3.7						
	MAGNESIUM	mg/kg																		
	MANGANESE	mg/kg			120				180		170			150						
	MERCURY	mg/kg																		
	MOLYBDENUM	mg/kg			0.28				2		0.21			0.35						
	NICKEL	mg/kg			11				9.1		12			19						
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	POTASSIUM	mg/kg																		
	Potassium	mg/kg																		
	SELENIUM	mg/kg			0.59				0.49		0.43			0.22						
	SILVER	mg/kg			0.062J				0.038J		0.056J			0.042J						
	SODIUM	mg/kg																		
	THALLIUM	mg/kg			0.08U				0.11		0.097U			0.072U						
	TIN	mg/kg																		
	TITANIUM	mg/kg																		
	URANIUM	mg/kg			0.98				0.71		1.6			0.78						
	VANADIUM	mg/kg			18J				32J		17J			13J						
	ZINC	mg/kg			20				17		20			14						
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	2,4'-DDE	mg/kg	<0.001	<0.001	<0.001	<0.001	<0.075	<0.075	<0.075	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.03	<0.001	<0.001	<0.001	<0.001
	2,4'-DDT	mg/kg																		
	4,4'-DDD	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	4,4'-DDE	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	4,4'-DDT	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ALDRIN	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ALPHA-BHC	mg/kg	0.15	0.12	0.041	0.021	27	16	5.7	0.0049	<0.0015	<0.0015	0.0093	0.0055	0.0027	0.23	0.033	0.0035U	0.0039U	0.0019U
	BETA-BHC	mg/kg	0.061	0.07	0.024	0.011	74	14	3.4	0.0033	<0.0015	0.0034	0.0091	0.0058	0.002	37	0.32	0.0031U	0.0048	<0.0015
	CHLORDANE	mg/kg	<0.01	<0.01	<0.01	<0.01	<0.75	<0.75	<0.75	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.3	<0.01	<0.01	<0.01	<0.01
	DELTA-BHC	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	DIELDRIN	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ENDOSULFAN I	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ENDOSULFAN II	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ENDOSULFAN SULFATE	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.15	<0.15	<0.15	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.06	<0.002	<0.002	<0.002	<0.002
	ENDRIN	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ENDRIN ALDEHYDE	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	ENDRIN KETONE	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.15	<0.15	<0.15	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.06	<0.002	<0.002	<0.002	<0.002
	GAMMA-BHC (LINDANE)	mg/kg	0.0024	<0.0015	<0.0015	<0.0015	0.3	0.23	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	HEPTACHLOR	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.15	<0.15	<0.15	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.06	<0.002	<0.002	<0.002	<0.002
	HEPTACHLOR EPOXIDE	mg/kg	<0.002	<0.002	<0.002	<0.002	<0.15	<0.15	<0.15	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.06	<0.002	<0.002	<0.002	<0.002
	METHOXYCHLOR	mg/kg	<0.0015	<0.0015	<0.0015	<0.0015	<0.11	<0.11	<0.11	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015	<0.045	<0.0015	<0.0015	<0.0015	<0.0015
	TOXAPHENE	mg/kg	<0.05	<0.05	<0.05	<0.05	<3.8	<3.8	<3.8	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<1.5	<0.05	<0.05	<0.05	<0.05

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-102 SB-EC-102-20.0 20-20.5 11/12/2009	SB-EC-102 SB-EC-102-25.0 24.5-25 11/12/2009	SB-EC-102 SB-EC-102-30.0 30-30.5 11/12/2009	SB-EC-102 SB-EC-102-35.0 35-35.5 11/12/2009	SB-EC-103 SB-EC-103-2.0 2-2.5 11/12/2009	SB-EC-103 SB-EC-103-3.0 3-3.5 11/12/2009	SB-EC-103 SB-EC-103-5.0 5-5.5 11/12/2009	SB-EC-103 SB-EC-103-10.0 10-10.5 11/12/2009	SB-EC-103 SB-EC-103-15.0 15-15.5 11/12/2009	SB-EC-103 SB-EC-103-20.0 20-20.5 11/12/2009	SB-EC-103 SB-EC-103-25.0 25-25.5 11/12/2009	SB-EC-103 SB-EC-103-30.0 30-30.5 11/12/2009	SB-EC-103 SB-EC-103-35.0 35-35.5 11/12/2009	SB-EC-89 SB-EC-89-2.0 1.5-2 11/6/2009	SB-EC-89 SB-EC-89-5.0 5-5.5 11/6/2009	SB-EC-89 SB-EC-89-10.0 10-10.5 11/6/2009	SB-EC-89 SB-EC-89-15.0 15-15.5 11/6/2009	SB-EC-89 SB-EC-89-20.0 19.5-20 11/6/2009
OP PEST	AZINPHOS-METHYL	mg/kg																		
[EPA 8141A]	BOLSTAR	mg/kg																		
	CARBOPHENOTHION (TRITHION)	mg/kg																		
	CHLORPYRIFOS	mg/kg																		
	COUMAPHOS	mg/kg																		
	DEMETON	mg/kg																		
	DEMETON-O	mg/kg																		
	DIAZINON	mg/kg																		
	DICHLORVOS	mg/kg																		
	DIMETHOATE	mg/kg																		
	DISULFOTON	mg/kg																		
	EPN	mg/kg																		
	ETHION	mg/kg																		
	ETHOPROP	mg/kg																		
	ETHYL PARATHION	mg/kg																		
	FAMPHUR	mg/kg																		
	FENSULFOTHION	mg/kg																		
	FENTHION	mg/kg																		
	MALATHION	mg/kg																		
	MERPHOS	mg/kg																		
	METHYL CARBOPHENOTHION	mg/kg																		
	METHYL PARATHION	mg/kg																		
	MEVINPHOS	mg/kg																		
	NALED	mg/kg																		
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg																		
	PHORATE	mg/kg																		
	PHOSMET	mg/kg																		
	RONNEL	mg/kg																		
	STIROPHOS	mg/kg																		
	SULFOTEPP	mg/kg																		
	TETRACHLORVINPHOS	mg/kg																		
	THIONAZIN	mg/kg																		
	TOKUTHION	mg/kg																		
	TRICHLORNATE	mg/kg																		
ORGACIDS	4-CHLOROBENZENESULFONIC ACID	mg/Kg																		
[HPLC]	BENZENESULFONIC ACID	mg/Kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg																		
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg																		
	PHTHALIC ACID	mg/Kg																		
PCB	AROCLOR-1016	mg/kg																		
[EPA 8082]	AROCLOR-1221	mg/kg																		
	AROCLOR-1232	mg/kg																		
	AROCLOR-1242	mg/kg																		
	AROCLOR-1248	mg/kg																		
	AROCLOR-1254	mg/kg																		
	AROCLOR-1260	mg/kg																		
SVOC	1,1'-SULFONYBIS BENZENE	mg/kg																		
[EPA 8270C/M]	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg																		
	1,2,4,5-TETRACHLOROBENZENE	mg/kg																		
	1,2,4-TRICHLOROBENZENE	mg/kg																		
	1,2-DICHLOROBENZENE	mg/kg																		
	1,3-DICHLOROBENZENE	mg/kg																		
	1,4-DICHLOROBENZENE	mg/kg																		
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg																		
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																		

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-102 SB-EC-102-20.0 20-20.5 11/12/2009	SB-EC-102 SB-EC-102-25.0 24.5-25 11/12/2009	SB-EC-102 SB-EC-102-30.0 30-30.5 11/12/2009	SB-EC-102 SB-EC-102-35.0 35-35.5 11/12/2009	SB-EC-103 SB-EC-103-2.0 2-2.5 11/12/2009	SB-EC-103 SB-EC-103-3.0 3-3.5 11/12/2009	SB-EC-103 SB-EC-103-5.0 5-5.5 11/12/2009	SB-EC-103 SB-EC-103-10.0 10-10.5 11/12/2009	SB-EC-103 SB-EC-103-15.0 15-15.5 11/12/2009	SB-EC-103 SB-EC-103-20.0 20-20.5 11/12/2009	SB-EC-103 SB-EC-103-25.0 25-25.5 11/12/2009	SB-EC-103 SB-EC-103-30.0 30-30.5 11/12/2009	SB-EC-103 SB-EC-103-35.0 35-35.5 11/12/2009	SB-EC-89 SB-EC-89-2.0 1.5-2 11/6/2009	SB-EC-89 SB-EC-89-5.0 5-5.5 11/6/2009	SB-EC-89 SB-EC-89-10.0 10-10.5 11/6/2009	SB-EC-89 SB-EC-89-15.0 15-15.5 11/6/2009	SB-EC-89 SB-EC-89-20.0 19.5-20 11/6/2009
SVOC	2,4,5-TRICHLOROPHENOL	mg/kg																		
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg																		
	2,4-DICHLOROPHENOL	mg/kg																		
	2,4-DIMETHYLPHENOL	mg/kg																		
	2,4-DINITROPHENOL	mg/kg																		
	2,4-DINITROTOLUENE	mg/kg																		
	2,6-DINITROTOLUENE	mg/kg																		
	2-CHLORONAPHTHALENE	mg/kg																		
	2-CHLOROPHENOL	mg/kg																		
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																		
	2-METHYLNAPHTHALENE	mg/kg																		
	2-METHYLPHENOL	mg/kg																		
	2-NITROANILINE	mg/kg																		
	2-NITROPHENOL	mg/kg																		
	3,3'-DICHLOROBENZIDINE	mg/kg																		
	3-HEXENE-2,5-DIONE	mg/kg																		
	3-NITROANILINE	mg/kg																		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																		
	4-BROMOPHENYL PHENYL ETHER	mg/kg																		
	4-CHLORO-3-METHYLPHENOL	mg/kg																		
	4-CHLOROANILINE	mg/kg																		
	4-CHLOROBENZENETHIOL	mg/kg																		
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg																		
	4-CHLOROPHENYL PHENYL ETHER	mg/kg																		
	4-METHYLPHENOL	mg/kg																		
	4-NITROANILINE	mg/kg																		
	4-NITROPHENOL	mg/kg																		
	ACENAPHTHENE	mg/kg																		
	ACENAPHTHYLENE	mg/kg																		
	ANILINE	mg/kg																		
	ANTHRACENE	mg/kg																		
	AZOBENZENE	mg/kg																		
	BENZO(A)ANTHRACENE	mg/kg																		
	BENZO(A)PYRENE	mg/kg																		
	BENZO(B)FLUORANTHENE	mg/kg																		
	BENZO(GHI)PERYLENE	mg/kg																		
	BENZO(K)FLUORANTHENE	mg/kg																		
	BENZOIC ACID	mg/kg																		
	BENZOPHENONE	mg/kg																		
	BENZYL ALCOHOL	mg/kg																		
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																		
	BIS(2-CHLOROETHYL)ETHER	mg/kg																		
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg																		
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg																		
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg																		
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg																		
	BUTYL BENZYL PHTHALATE	mg/kg																		
	CHLORAL	mg/kg																		
	CHRYSENE	mg/kg																		
	DIBENZO(A,H)ANTHRACENE	mg/kg																		
	DIBENZOFURAN	mg/kg																		
	DICHLOROACETALDEHYDE	mg/kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg																		
	DIETHYL PHTHALATE	mg/kg																		
	DIMETHYL PHTHALATE	mg/kg																		
	DIMETHYL SULFOXIDE	mg/kg																		
	DI-N-BUTYL PHTHALATE	mg/kg																		
	DI-N-OCTYL PHTHALATE	mg/kg																		

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Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-102	SB-EC-102	SB-EC-102	SB-EC-102	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-103	SB-EC-89	SB-EC-89	SB-EC-89	SB-EC-89	SB-EC-89
			SB-EC-102-20.0	SB-EC-102-25.0	SB-EC-102-30.0	SB-EC-102-35.0	SB-EC-103-2.0	SB-EC-103-3.0	SB-EC-103-5.0	SB-EC-103-10.0	SB-EC-103-15.0	SB-EC-103-20.0	SB-EC-103-25.0	SB-EC-103-30.0	SB-EC-103-35.0	SB-EC-89-2.0	SB-EC-89-5.0	SB-EC-89-10.0	SB-EC-89-15.0	SB-EC-89-20.0
			20-20.5	24.5-25	30-30.5	35-35.5	2-2.5	3-3.5	5-5.5	10-10.5	15-15.5	20-20.5	25-25.5	30-30.5	35-35.5	1.5-2	5-5.5	10-10.5	15-15.5	19.5-20
			11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/12/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009	11/6/2009
SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg																		
	FLUORENE	mg/kg																		
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg																		
	HEXACHLOROBENZENE	mg/kg																		
	HEXACHLOROBUTADIENE	mg/kg																		
	HEXACHLOROCYCLOPENTADIENE	mg/kg																		
	HEXACHLOROETHANE	mg/kg																		
	INDENO(1,2,3-CD)PYRENE	mg/kg																		
	ISOPHORONE	mg/kg																		
	NAPHTHALENE	mg/kg																		
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg																		
	NITROBENZENE	mg/kg																		
	N-NITROSODIMETHYLAMINE	mg/kg																		
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg																		
	N-NITROSODIPHENYLAMINE	mg/kg																		
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg																		
	PENTACHLOROBENZENE	mg/kg																		
	PENTACHLOROPHENOL	mg/kg																		
	PHENANTHRENE	mg/kg																		
	PHENOL	mg/kg																		
	PHENYL DISULFIDE	mg/kg																		
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg																		
	PYRIDINE	mg/kg																		
	THIOPHENOL	mg/kg																		
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00049	<0.00049	<0.00052	<0.00047	<0.00047	<0.0005	<0.00063	<0.00058	<0.00058	<0.00057	<0.00057	<0.00051	<0.00049	<0.00053	<0.0005	<0.00054	<0.00053	<0.00051
	1,1,1-TRICHLOROETHANE	mg/kg	<0.00061	<0.0006	<0.00064	<0.00058	<0.00058	<0.00061	<0.00078	<0.00072	<0.00071	<0.0007	<0.00069	<0.00063	<0.0006	<0.00065	<0.00061	<0.00066	<0.00065	<0.00063
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00074	<0.00074	<0.00079	<0.00071	<0.00071	<0.00075	<0.00095	<0.00088	<0.00088	<0.00087	<0.00085	<0.00077	<0.00073	<0.00079	<0.00075	<0.00081	<0.0008	<0.00078
	1,1,2-TRICHLOROETHANE	mg/kg	<0.00075	<0.00075	<0.0008	<0.00072	<0.00072	<0.00076	<0.00096	<0.00089	<0.00089	<0.00088	<0.00086	<0.00078	<0.00074	<0.0008	<0.00076	<0.00082	<0.00081	<0.00079
	1,1-DICHLOROETHANE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	1,1-DICHLOROETHENE	mg/kg	<0.00052	<0.00052	<0.00055	<0.0005	<0.0005	<0.00052	<0.00067	<0.00061	<0.00061	<0.0006	<0.0006	<0.00054	<0.00051	<0.00055	<0.00052	<0.00056	<0.00056	<0.00054
	1,1-DICHLOROPROPENE	mg/kg	<0.00035	<0.00034	<0.00037	<0.00033	<0.00033	<0.00035	<0.00044	<0.00041	<0.00041	<0.0004	<0.0004	<0.00036	<0.00034	<0.00037	<0.00035	<0.00038	<0.00037	<0.00036
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.00087	<0.00086	0.0015	0.0013	0.0033	0.0026	0.0016	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	1,2,4-TRICHLOROBENZENE	mg/kg	0.0018	0.0015	0.0039	0.0041	0.029	0.035	0.0099	0.0011	0.0017	<0.001	<0.00099	0.0015	0.0022	0.0029	0.0015	<0.00094	<0.00093	<0.0009
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.00067	<0.00067	<0.00072	<0.00064	0.00065	0.00082	<0.00086	<0.0008	<0.00079	<0.00078	<0.00077	<0.0007	<0.00067	<0.00072	<0.00068	<0.00073	<0.00072	<0.0007
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0013	<0.0013	<0.0014	<0.0012	<0.0012	<0.0013	<0.0017	<0.0015	<0.0015	<0.0015	<0.0015	<0.0013	<0.0013	<0.0014	<0.0013	<0.0014	<0.0014	<0.0014
	1,2-DIBROMOETHANE	mg/kg	<0.00069	<0.00069	<0.00074	<0.00066	<0.00066	<0.0007	<0.00089	<0.00082	<0.00081	<0.0008	<0.00079	<0.00072	<0.00068	<0.00074	<0.0007	<0.00075	<0.00074	<0.00072
	1,2-DICHLOROBENZENE	mg/kg	<0.00082	<0.00082	<0.00087	<0.00079	<0.00079	<0.00083	<0.0011	<0.00097	<0.00097	<0.00096	<0.00094	<0.00085	<0.00081	<0.00088	<0.00083	<0.00089	<0.00088	<0.00086
	1,2-DICHLOROETHANE	mg/kg	<0.00069	<0.00069	<0.00074	<0.00066	<0.00066	<0.0007	<0.00089	<0.00082	<0.00081	<0.0008	<0.00079	<0.00072	<0.00068	<0.00074	<0.0007	<0.00075	<0.00074	<0.00072
	1,2-DICHLOROPROPANE	mg/kg	<0.00069	<0.00069	<0.00074	<0.00066	<0.00066	<0.0007	<0.00089	<0.00082	<0.00081	<0.0008	<0.00079	<0.00072	<0.00068	<0.00074	<0.0007	<0.00075	<0.00074	<0.00072
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	0.00085	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00054	<0.00054	<0.00058	<0.00052	<0.00052	<0.00055	<0.0007	<0.00065	<0.00064	<0.00063	<0.00062	<0.00057	<0.00054	<0.00058	<0.00055	<0.00059	<0.00059	<0.00057
	1,3-DICHLOROBENZENE	mg/kg	<0.00073	<0.00072	<0.00077	<0.00069	<0.0007	<0.00073	<0.00093	<0.00086	<0.00086	<0.00085	<0.00083	<0.00075	<0.00072	<0.00078	<0.00073	<0.00079	<0.00078	<0.00076
	1,3-DICHLOROPROPANE	mg/kg	<0.00054	<0.00054	<0.00058	<0.00052	<0.00052	<0.00055	<0.0007	<0.00065	<0.00064	<0.00063	<0.00062	<0.00057	<0.00054	<0.00058	<0.00055	<0.00059	<0.00059	<0.00057
	1,4-DICHLOROBENZENE	mg/kg	<0.00081	<0.00081	<0.00087	<0.00078	<0.00078	<0.00082	<0.001	<0.00096	<0.00096	<0.00095	<0.00093	<0.00084	0.0011	<0.00087	<0.00082	<0.00088	<0.00087	<0.00085
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	2,2-DICHLOROPROPANE	mg/kg	<0.00052	<0.00052	<0.00055	<0.0005	<0.0005	<0.00052	<0.00067	<0.00061	<0.00061	<0.0006	<0.0006	<0.00054	<0.00051	<0.00055	<0.00052	<0.00056	<0.00056	<0.00054
	2,2-DIMETHYLPENTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	2,3-DIMETHYLPENTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	0.0016	0.0023	0.0018	0.0034	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	2,4-DIMETHYLPENTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	2-BUTANONE	mg/kg	<0.0052	<0.0052	<0.0055	<0.005	<0.005	<0.0052	<0.0067	<0.0061	<0.0061	<0.006	<0.006	<0.0054	<0.0051	<0.0055	<0.0052	<0.0056	<0.0056	<0.0054
	2-CHLOROTOLUENE	mg/kg	<0.00075	<0.00075	<0.0008	<0.00072	<0.00072	<0.00076	<0.00096	<0.00089	<0.00089	<0.00088	<0.00086	<0.00078	<0.00074	<0.0008	<0.00076	<0.00082	<0.00081	<0.00079
	2-HEXANONE	mg/kg	<0.0079	<0.0078	<0.0084	<0.0075	<0.0075	<0.0079	<0.01	<0.0093	<0.0093	<0.0092	<0.009	<0.0082	<0.0078	<0.0084	<0.0079	<0.0086	<0.0085	<0.0082
	2-METHYLHEXANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	0.0015	0.0031	0.02	0.0086	0.014	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	3,3-DIMETHYLPENTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	3-ETHYLPENTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	0.0015	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-102 SB-EC-102-20.0 20-20.5 11/12/2009	SB-EC-102 SB-EC-102-25.0 24.5-25 11/12/2009	SB-EC-102 SB-EC-102-30.0 30-30.5 11/12/2009	SB-EC-102 SB-EC-102-35.0 35-35.5 11/12/2009	SB-EC-103 SB-EC-103-2.0 2-2.5 11/12/2009	SB-EC-103 SB-EC-103-3.0 3-3.5 11/12/2009	SB-EC-103 SB-EC-103-5.0 5-5.5 11/12/2009	SB-EC-103 SB-EC-103-10.0 10-10.5 11/12/2009	SB-EC-103 SB-EC-103-15.0 15-15.5 11/12/2009	SB-EC-103 SB-EC-103-20.0 20-20.5 11/12/2009	SB-EC-103 SB-EC-103-25.0 25-25.5 11/12/2009	SB-EC-103 SB-EC-103-30.0 30-30.5 11/12/2009	SB-EC-103 SB-EC-103-35.0 35-35.5 11/12/2009	SB-EC-89 SB-EC-89-2.0 1.5-2 11/6/2009	SB-EC-89 SB-EC-89-5.0 5-5.5 11/6/2009	SB-EC-89 SB-EC-89-10.0 10-10.5 11/6/2009	SB-EC-89 SB-EC-89-15.0 15-15.5 11/6/2009	SB-EC-89 SB-EC-89-20.0 19.5-20 11/6/2009
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	0.0023	0.005	0.014	0.0079	0.015	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	4-CHLOROTOLUENE	mg/kg	<0.00064	<0.00064	<0.00068	<0.00061	<0.00061	<0.00064	<0.00082	<0.00076	<0.00075	<0.00074	<0.00073	<0.00066	<0.00063	<0.00068	<0.00064	<0.0007	<0.00069	<0.00067
	4-METHYL-2-PENTANONE	mg/kg	<0.0039	<0.0039	<0.0041	<0.0037	<0.0037	<0.0039	<0.005	<0.0046	<0.0046	<0.0045	<0.0045	<0.004	<0.0038	<0.0042	<0.0039	<0.0042	<0.0042	<0.0041
	ACETONE	mg/kg	<0.0069	<0.0069	<0.0074	<0.0066	<0.0066	<0.007	<0.0089	<0.0082	<0.0081	<0.008	<0.0079	<0.0072	0.011	<0.0074	<0.007	<0.0075	<0.0074	<0.0072
	BENZENE	mg/kg	<0.00043	<0.00043	<0.00046	0.0006	0.0011	0.0009	<0.00055	<0.00051	<0.00051	0.0049	0.013	0.018	0.024	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	BROMOBENZENE	mg/kg	<0.00073	<0.00072	<0.00077	<0.00069	<0.0007	<0.00073	<0.00093	<0.00086	<0.00086	<0.00085	<0.00083	<0.00075	<0.00072	<0.00078	<0.00073	<0.00079	<0.00078	<0.00076
	BROMOCHLOROMETHANE	mg/kg	<0.00078	<0.00077	<0.00083	<0.00074	<0.00075	<0.00078	<0.001	<0.00092	<0.00092	<0.00091	<0.00089	<0.00081	<0.00077	<0.00083	<0.00078	<0.00085	<0.00084	<0.00081
	BROMODICHLOROMETHANE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	BROMOFORM	mg/kg	<0.00069	<0.00069	<0.00074	<0.00066	<0.00066	<0.0007	<0.00089	<0.00082	<0.00081	<0.0008	<0.00079	<0.00072	<0.00068	<0.00074	<0.0007UJ	<0.00075UJ	<0.00074UJ	<0.00072UJ
	BROMOMETHANE	mg/kg	<0.0008	<0.00079	<0.00085	<0.00076	<0.00076	<0.0008	<0.001	<0.00094	<0.00094	<0.00093	<0.00091	<0.00083	<0.00078	<0.00085	<0.0008	<0.00086	<0.00086	<0.00083
	CARBON DISULFIDE	mg/kg	<0.00084	<0.00083	<0.00089	<0.0008	<0.0008	<0.00084	<0.0011	<0.00099	<0.00099	<0.00098	<0.00096	0.0023	0.0022	<0.0009	<0.00084	<0.00091	<0.0009	<0.00088
	CARBON TETRACHLORIDE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	CHLOROBENZENE	mg/kg	<0.00045	0.00079	0.00085	<0.00043	0.0013	0.0012	0.0012	<0.00053	0.0019	0.0079	0.02	0.017	0.032	<0.00048	<0.00045	<0.00049	<0.00048	<0.00047
	CHLOROETHANE	mg/kg	<0.0013	<0.0013	<0.0014	<0.0012	<0.0012	<0.0013	<0.0017	<0.0015	<0.0015	<0.0015	<0.0015	<0.0013	<0.0013	<0.0014	<0.0013	<0.0014	<0.0014	<0.0014
	CHLOROFORM	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	CHLOROMETHANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00072	<0.00071	<0.00076	<0.00069	<0.00069	<0.00072	<0.00092	<0.00085	<0.00085	<0.00084	<0.00082	<0.00075	<0.00071	<0.00077	<0.00072	<0.00078	<0.00077	<0.00075
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00038	<0.00038	<0.00041	<0.00036	<0.00036	<0.00038	<0.00049	<0.00045	<0.00045	<0.00044	<0.00044	<0.00039	<0.00038	<0.00041	<0.00038	<0.00041	<0.00041	<0.0004
	DIBROMOCHLOROMETHANE	mg/kg	<0.00061	<0.0006	<0.00064	<0.00058	<0.00058	<0.00061	<0.00078	<0.00072	<0.00071	<0.0007	<0.00069	<0.00063	<0.0006	<0.00065	<0.00061	<0.00066	<0.00065	<0.00063
	DIBROMOMETHANE	mg/kg	<0.00078	<0.00077	<0.00083	<0.00074	<0.00075	<0.00078	<0.001	<0.00092	<0.00092	<0.00091	<0.00089	<0.00081	<0.00077	<0.00083	<0.00078	<0.00085	<0.00084	<0.00081
	DICHLORODIFLUOROMETHANE	mg/kg	<0.0013	<0.0013	<0.0014	<0.0012	<0.0012	<0.0013	<0.0017	<0.0015	<0.0015	<0.0015	<0.0015	<0.0013	<0.0013	<0.0014	<0.0013	<0.0014	<0.0014	<0.0014
	DIMETHYL DISULFIDE	mg/kg	<0.00087	<0.00086	0.0031	0.0074	<0.00083	<0.00087	<0.0011	<0.001	0.0038	0.047	0.086	0.059	0.079	<0.00092	0.0023	<0.00094	<0.00093	<0.0009
	ETHYLBENZENE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	HEXACHLOROBUTADIENE	mg/kg	<0.00069	<0.00069	<0.00074	<0.00066	<0.00066	<0.0007	<0.00089	<0.00082	<0.00081	<0.0008	<0.00079	<0.00072	<0.00068	<0.00074	<0.0007	<0.00075	<0.00074	<0.00072
	ISOPROPYLBENZENE	mg/kg																		
	M,P-XYLENE	mg/kg	<0.00069	<0.00069	<0.00074	0.00079	<0.00066	0.00082	0.00091	0.0011	<0.00081	<0.0008	<0.00079	<0.00072	0.00068	<0.00074	<0.0007	<0.00075	<0.00074	<0.00072
	METHYLENE CHLORIDE	mg/kg	<0.0056	<0.0056	<0.006	<0.0054	<0.0054	<0.0057	<0.0072	<0.0067	<0.0066	<0.0065	<0.0064	<0.0058	<0.0055	<0.006	<0.0057	<0.0061	<0.006	<0.0059
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	<0.00099	<0.0009	<0.00085	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	NAPHTHALENE	mg/kg	<0.00095	<0.00095	<0.001	<0.00091	<0.00091	<0.00096	<0.0012	<0.0011	<0.0011	<0.0011	<0.0011	<0.00099	<0.00094	<0.001	<0.00096	<0.001	<0.001	<0.00099
	N-BUTYLBENZENE	mg/kg	<0.00062	<0.00062	<0.00066	<0.0006	<0.0006	<0.00063	<0.0008	<0.00074	<0.00073	<0.00072	<0.00071	<0.00065	<0.00061	<0.00067	<0.00063	<0.00068	<0.00067	<0.00065
	N-HEPTANE	mg/kg	<0.00087	<0.00086	<0.00092	<0.00083	<0.00083	<0.00087	<0.0011	<0.001	<0.001	<0.001	0.01	0.007	0.013	<0.00092	<0.00087	<0.00094	<0.00093	<0.0009
	NONANAL	mg/kg	<0.0034	<0.0034	<0.0036	<0.0032	<0.0032	<0.0034	<0.0043	<0.004	<0.004	<0.0039	<0.0039	<0.0035	<0.0033	<0.0036	<0.0034UJ	<0.0037UJ	<0.0036UJ	<0.0035UJ
	N-PROPYLBENZENE	mg/kg	<0.00053	<0.00052	<0.00056	<0.0005	<0.00051	<0.00053	<0.00068	<0.00062	<0.00062	<0.00061	<0.00061	<0.00055	<0.00052	<0.00056	<0.00053	<0.00057	<0.00057	<0.00055
	O-XYLENE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	P-ISOPROPYL TOLUENE	mg/kg	<0.00062	<0.00062	<0.00066	<0.0006	<0.0006	<0.00063	<0.0008	<0.00074	<0.00073	<0.00072	<0.00071	<0.00065	<0.00061	<0.00067	<0.00063	<0.00068	<0.00067	<0.00065
	SEC-BUTYLBENZENE	mg/kg	<0.00058	<0.00058	<0.00062	<0.00055	<0.00056	<0.00058	<0.00074	<0.00069	<0.00068	<0.00067	<0.00066	<0.0006	<0.00057	<0.00062	<0.00058	<0.00063	<0.00062	<0.0006
	STYRENE	mg/kg	<0.0005	<0.0005	<0.00053	<0.00048	<0.00048	<0.0005	<0.00064	<0.00059	<0.00059	<0.00058	<0.00058	<0.00052	<0.00049	<0.00054	<0.00051	<0.00055	<0.00054	<0.00052
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.00054	<0.00053	<0.00057	<0.00051	<0.00051	<0.00054	<0.00069	<0.00064	<0.00063	<0.00062	<0.00062	<0.00056	<0.00053	<0.00057	<0.00054	<0.00058	<0.00058	<0.00056
	TETRACHLOROETHENE	mg/kg	<0.00042	<0.00042	<0.00045	<0.0004	<0.00041	<0.00043	<0.00054	<0.0005	<0.0005	<0.00049	<0.00049	<0.00044	<0.00042	<0.00045	<0.00043	<0.00046	<0.00046	<0.00044
	TOLUENE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	0.00076	0.0014	0.0012	0.0018	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00061	<0.0006	<0.00064	<0.00058	<0.00058	<0.00061	<0.00078	<0.00072	<0.00071	<0.0007	<0.00069	<0.00063	<0.0006	<0.00065	<0.00061	<0.00066	<0.00065	<0.00063
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00053	<0.00052	<0.00056	<0.0005	<0.00051	<0.00053	<0.00068	<0.00062	<0.00062	<0.00061	<0.00061	<0.00055	<0.00052	<0.00056	<0.00053	<0.00057	<0.00057	<0.00055
	TRICHLOROETHENE	mg/kg	<0.00043	<0.00043	<0.00046	<0.00041	<0.00041	<0.00043	<0.00055	<0.00051	<0.00051	<0.0005	<0.0005	<0.00045	<0.00043	<0.00046	<0.00044	<0.00047	<0.00046	<0.00045
	TRICHLOROFLUOROMETHANE	mg/kg	<0.00047	<0.00046	<0.0005	<0.00045	<0.00045	<0.00047	<0.0006	<0.00055	<0.00055	<0.00054	<0.00054	<0.00048	<0.00046	<0.0005	<0.00047	0.00051	<0.0005	<0.00049
	VINYL CHLORIDE	mg/kg	<0.00079	<0.00078	<0.00084	<0.00075	<0.00075	<0.00079	<0.001	<0.00093	<0.00093	<0.00092	<0.0009	<0.00082	<0.00078	<0.00084	<0.00079	<0.00086	<0.00085	<0.00082

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-98 SB-EC-98-2.0 2-2.5 11/11/2009	SB-EC-98 SB-EC-98-3.0 3-3.5 11/11/2009	SB-EC-98 SB-EC-98-5.0 5-5.5 11/11/2009	SB-EC-98 SB-EC-98-10.0 10-10.5 11/11/2009	SB-EC-98 SB-EC-98-15.0 15-15.5 11/11/2009	SB-EC-98 SB-EC-98-20.0 20-20.5 11/11/2009	SB-EC-98 SB-EC-98-25.0 25-25.5 11/11/2009	SB-EC-98 SB-EC-98-30.0 30-30.5 11/11/2009	SB-EC-98 SB-EC-98-35.0 35-35.5 11/11/2009	WC-05 WC-05-7.0 7-9 2/10/2009	WC-06 WC-06-7.0 7-9 2/10/2009	WC-07 WC-07-8.0 8-10 2/10/2009	SB-EC-132 SB-EC-132-0.5 0-0.5 5/20/2013	SB-EC-132 SB-EC-132-5.0 4.5-5 5/20/2013	SB-EC-132 SB-EC-132-10.0 9.5-10 5/20/2013	SB-EC-132 SB-EC-132-20.0 19.5-20 5/20/2013	SB-EC-133 SB-EC-133-0.5 0-0.5 5/18/2013	SB-EC-133 SB-EC-133-8.0 7.5-8 5/18/2013
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																		
	CHLOROACETALDEHYDE	mg/kg																		
	FORMALDEHYDE	mg/kg																		
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT													<0				<0	
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT													<0				2	
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT													<0				2	
	SHORT AMPHIBOLE STRUCTURES	COUNT													<0				1	
	SHORT ASBESTOS STRUCTURES	COUNT													<0				2	
	SHORT CHRYSOTILE STRUCTURES	COUNT													<0				1	
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT													<0				1	
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT													<0				4	
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT													<0				3	
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg										15	9	12						
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg										23	5.2	17						
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg										<1.9	1.7	10						
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg										4.2	1.7	44						
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg										<1.9	<0.95	2.1						
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg										<2.2	<0.81	12						
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg										<3	1	<2.2						
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg										<1.2	<0.74	1.9						
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg										1.6	<0.84	1.1						
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg										<5.2	1.2	22						
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg										<8.5	<5.7	<1.5						
	2,3,7,8-TCDD	ng/kg										67	<3.7	<14						
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg										70.83	1.20	10.87						
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg										1.5	<0.66	2.3						
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg										<1.6	0.81	6.5						
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg										27	4.7	15						
	HEPTACHLORINATED DIBENZOFURAN	ng/kg										32	13	40						
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg										29	15	25						
	HEXACHLORINATED DIBENZOFURAN	ng/kg										41	5.3	100						
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg										25	55	22						
	OCTACHLORINATED DIBENZOFURAN	ng/kg										57	12	57						
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg										26	62	31						
	PENTACHLORINATED DIBENZOFURAN	ng/kg										37	14	100						
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg										14	1800	6.5						
	TETRACHLORINATED DIBENZOFURAN	ng/kg										160	28	110						
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg										7100	9200	1600						
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g										15	15	7.7						
	Fraction organic Carbon	g/g										0.0352	0.0391	0.00155						
	Percent Moisture	%										12.9	18.7	7.5						
	PH	pH Units										2.49	1.69	7.72						
	TOTAL ORGANIC CARBON	mg/kg										35200	39100	1550						
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																		
	EFH (C8 - C40)	mg/kg																		
	ETHANOL	mg/kg																		
	METHANOL	mg/kg																		
	ORO (C25-C40)	mg/kg																		
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																		
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																		
	CHLORIDE	mg/kg										550	1200	1400						
	CYANIDE	mg/kg										<0.5	<0.5	<0.5						
	FLUORIDE	mg/kg																		
	IODIDE	mg/kg																		
	NITRATE (AS N)	mg/kg										<55	<22	1.8						
	PH	pH Units										2.65	2.25	6.18						
	PHOSPHATE	mg/kg										560000	600000	180000						
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	SULFATE	mg/kg										1600J-	1000J-	640J-						
	TOTAL CARBON	mg/kg																		
	TOTAL INORGANIC CARBON	mg/kg																		
	TOTAL ORGANIC CARBON	mg/Kg																		

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-98 SB-EC-98-2.0 2-2.5 11/11/2009	SB-EC-98 SB-EC-98-3.0 3-3.5 11/11/2009	SB-EC-98 SB-EC-98-5.0 5-5.5 11/11/2009	SB-EC-98 SB-EC-98-10.0 10-10.5 11/11/2009	SB-EC-98 SB-EC-98-15.0 15-15.5 11/11/2009	SB-EC-98 SB-EC-98-20.0 20-20.5 11/11/2009	SB-EC-98 SB-EC-98-25.0 25-25.5 11/11/2009	SB-EC-98 SB-EC-98-30.0 30-30.5 11/11/2009	SB-EC-98 SB-EC-98-35.0 35-35.5 11/11/2009	WC-05 WC-05-7.0 7-9 2/10/2009	WC-06 WC-06-7.0 7-9 2/10/2009	WC-07 WC-07-8.0 8-10 2/10/2009	SB-EC-132 SB-EC-132-0.5 0-0.5 5/20/2013	SB-EC-132 SB-EC-132-5.0 4.5-5 5/20/2013	SB-EC-132 SB-EC-132-10.0 9.5-10 5/20/2013	SB-EC-132 SB-EC-132-20.0 19.5-20 5/20/2013	SB-EC-133 SB-EC-133-0.5 0-0.5 5/18/2013	SB-EC-133 SB-EC-133-8.0 7.5-8 5/18/2013
METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg			1300		12000			9800		8500	5600	7500						
	ANTIMONY	mg/kg			0.093U		0.015U			<0.014		<1	<1	<1						
	ARSENIC	mg/kg	3.3	4.2	0.99	4.7	5.3	6.7	3.8	4.3	4.8	<0.5	<0.5	<0.5						
	BARIUM	mg/kg			39		190			140		140J-	170J-	160J-						
	BERYLLIUM	mg/kg			0.08		0.51			0.46		<0.3	<0.3	<0.3						
	BORON	mg/kg																		
	CADMIUM	mg/kg			0.15		0.52			0.43		<0.5	<0.5	<0.5						
	CALCIUM	mg/kg										48000	36000	32000						
	CHROMIUM	mg/kg			6		7.7			9.6		<0.67U	<0.57U	<0.89U						
	COBALT	mg/kg			1.5		4.5			4.5		0.083	0.13	0.38						
	COPPER	mg/kg			3.1		10			9.9		<1	<1	0.67						
	HEXAVALENT CHROMIUM	mg/kg										<0.2	<0.2	0.034						
	IRON	mg/kg										7100	5500	17000						
	LEAD	mg/kg			2.3		5			4.2		0.26	0.23	0.42						
	MAGNESIUM	mg/kg										23000	16000	24000						
	MANGANESE	mg/kg			54		170			170		4.9	7.1	17						
	MERCURY	mg/kg										<0.02	<0.02	<0.02						
	MOLYBDENUM	mg/kg			1.5		0.21			0.51										
	NICKEL	mg/kg			21		16			12		0.6J-	0.77J-	1.1J-						
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg										120000	110000	36000						
	POTASSIUM	mg/kg										6600	3300	4000						
	Potassium	mg/kg																		
	SELENIUM	mg/kg			1		0.67			0.64		<1	<1	<1						
	SILVER	mg/kg			0.021		0.054			0.058		<0.5UJ	<0.5UJ	<0.5UJ						
	SODIUM	mg/kg										2200J-	3000J-	4000J-						
	THALLIUM	mg/kg			0.032U		0.11			0.12		<0.5	<0.5	<0.5						
	TIN	mg/kg										<10	<10	1.6						
	TITANIUM	mg/kg										380J	360J	400J						
	URANIUM	mg/kg			0.11		1.1			1.2										
	VANADIUM	mg/kg			3.8		20			18		0.76J-	0.82J-	2.1J-						
	ZINC	mg/kg			23		22			21		<10UJ	<10UJ	<1.7UJ						
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg	0.014	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	0.2	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	2,4'-DDE	mg/kg	0.05	0.01	<0.001	<0.001UJ	<0.001UJ	2.1J	<0.003UJ	<0.03	<0.003UJ	0.26J+	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	0.0056	<0.0016
	2,4'-DDT	mg/kg													<0.15	<0.0078	<0.016	<0.0078	0.002	<0.0016
	4,4'-DDD	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	0.31	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	4,4'-DDE	mg/kg	0.054	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	2.7	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	0.0075	<0.0016
	4,4'-DDT	mg/kg	0.081	<0.011	<0.075	<0.0015UJ	<0.0015UJ	0.89	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	0.0077	<0.0016
	ALDRIN	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	ALPHA-BHC	mg/kg	0.025	<0.0022	0.37	0.012J	<0.0015UJ	0.3	0.0062J	<0.045	<0.0045UJ	53	1.9J+	4.2	0.28	<0.0078	<0.016	<0.0078	0.085	0.026
	BETA-BHC	mg/kg	0.63	1.4	0.4J	<0.0015UJ	<0.0015UJ	3.4	<0.0045UJ	<0.045	<0.0045UJ	8.8	0.28J+	1.5	2.2	<0.0078	<0.016	<0.0078	0.54	0.017
	CHLORDANE	mg/kg	<0.01	<0.015	<0.01	<0.01UJ	<0.01UJ	<0.15	<0.03UJ	<0.3	<0.03UJ	<3.8	<3.8	<3.8	<1	<0.052	<0.1	<0.052	<0.01	<0.011
	DELTA-BHC	mg/kg	<0.0015	<0.0022	0.016	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	0.51J+	<0.75	<0.75	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	DIELDRIN	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	ENDOSULFAN I	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	ENDOSULFAN II	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	ENDOSULFAN SULFATE	mg/kg	<0.002	<0.003	<0.002	<0.002UJ	<0.002UJ	<0.03	<0.006UJ	<0.06	<0.006UJ	<0.75	<0.75	<0.75	<0.2	<0.01	<0.021	<0.01	<0.002	<0.0021
	ENDRIN	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	ENDRIN ALDEHYDE	mg/kg	<0.0015	<0.0022	<0.03	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	ENDRIN KETONE	mg/kg	<0.002	<0.003	<0.002	<0.002UJ	<0.002UJ	<0.03	<0.006UJ	<0.06	<0.006UJ	<0.38	<0.38	<0.38	<0.2	<0.01	<0.021	<0.01	<0.002	<0.0021
	GAMMA-BHC (LINDANE)	mg/kg	<0.0015	<0.0022	0.017	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	1.2J+	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	0.0032	<0.0016
	HEPTACHLOR	mg/kg	<0.002	<0.003	<0.002	<0.002UJ	<0.002UJ	<0.03	<0.006UJ	<0.06	<0.006UJ	<0.38	<0.38	<0.38	<0.2	<0.01	<0.021	<0.01	<0.002	<0.0021
	HEPTACHLOR EPOXIDE	mg/kg	<0.002	<0.003	<0.002	<0.002UJ	<0.002UJ	<0.03	<0.006UJ	<0.06	<0.006UJ	<0.38	<0.38	<0.38	<0.2	<0.01	<0.021	<0.01	<0.002	<0.0021
	METHOXYCHLOR	mg/kg	<0.0015	<0.0022	<0.0015	<0.0015UJ	<0.0015UJ	<0.022	<0.0045UJ	<0.045	<0.0045UJ	<0.38	<0.38	<0.38	<0.15	<0.0078	<0.016	<0.0078	<0.0015	<0.0016
	TOXAPHENE	mg/kg	<0.05	<0.075	<0.05	<0.05UJ	<0.05UJ	<0.75	<0.15UJ	<1.5	<0.15UJ	<15UJ	<15UJ	<15UJ	<5	<0.26	<0.52	<0.26	<0.05	<0.053

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Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-98 SB-EC-98-2.0 2-2.5 11/11/2009	SB-EC-98 SB-EC-98-3.0 3-3.5 11/11/2009	SB-EC-98 SB-EC-98-5.0 5-5.5 11/11/2009	SB-EC-98 SB-EC-98-10.0 10-10.5 11/11/2009	SB-EC-98 SB-EC-98-15.0 15-15.5 11/11/2009	SB-EC-98 SB-EC-98-20.0 20-20.5 11/11/2009	SB-EC-98 SB-EC-98-25.0 25-25.5 11/11/2009	SB-EC-98 SB-EC-98-30.0 30-30.5 11/11/2009	SB-EC-98 SB-EC-98-35.0 35-35.5 11/11/2009	WC-05 WC-05-7.0 7-9 2/10/2009	WC-06 WC-06-7.0 7-9 2/10/2009	WC-07 WC-07-8.0 8-10 2/10/2009	SB-EC-132 SB-EC-132-0.5 0-0.5 5/20/2013	SB-EC-132 SB-EC-132-5.0 4.5-5 5/20/2013	SB-EC-132 SB-EC-132-10.0 9.5-10 5/20/2013	SB-EC-132 SB-EC-132-20.0 19.5-20 5/20/2013	SB-EC-133 SB-EC-133-0.5 0-0.5 5/18/2013	SB-EC-133 SB-EC-133-8.0 7.5-8 5/18/2013
OP PEST [EPA 8141A]	AZINPHOS-METHYL	mg/kg										<0.13	<0.013	<0.013							
	BOLSTAR	mg/kg										<0.13	<0.013	<0.013							
	CARBOPHENOTHION (TRITHION)	mg/kg										<0.33	<0.033	0.12J+							
	CHLORPYRIFOS	mg/kg										<0.2	<0.02	<0.02							
	COUMAPHOS	mg/kg										<0.13	<0.013	<0.013							
	DEMETON	mg/kg										<0.39	<0.039	<0.039							
	DEMETON-O	mg/kg										<0.39	<0.039	<0.039							
	DIAZINON	mg/kg										<0.22	<0.022	<0.022							
	DICHLORVOS	mg/kg										<0.23	<0.023	<0.023							
	DIMETHOATE	mg/kg										<0.22	<0.022	<0.022							
	DISULFOTON	mg/kg										<0.48UJ	<0.048UJ	<0.048UJ							
	EPN	mg/kg										<0.13	<0.013	<0.013							
	ETHION	mg/kg																			
	ETHOPROP	mg/kg										<0.15	<0.015	<0.015							
	ETHYL PARATHION	mg/kg										<0.18	<0.018	<0.018							
	FAMPHUR	mg/kg										<0.13	<0.013	<0.013							
	FENSULFOTHION	mg/kg										<0.25	<0.025	<0.025							
	FENTHION	mg/kg										<0.33	<0.033	<0.033UJ							
	MALATHION	mg/kg										<0.15	<0.015	<0.015							
	MERPHOS	mg/kg										<0.3	<0.03	<0.03							
	METHYL CARBOPHENOTHION	mg/kg										<0.33UJ	<0.033UJ	<0.033UJ							
	METHYL PARATHION	mg/kg										<0.2	<0.02	<0.02							
	MEVINPHOS	mg/kg										<0.15UJ	<0.015UJ	<0.015UJ							
	NALED	mg/kg										<0.7UJ	<0.07UJ	<0.07UJ							
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg										<0.39	<0.039UJ	<0.039UJ							
	PHORATE	mg/kg										<0.2	<0.02	<0.02							
	PHOSMET	mg/kg										<0.67UJ	<0.067UJ	<0.067UJ							
	RONNEL	mg/kg										<0.46	<0.046	<0.046							
	STIROPHOS	mg/kg										<0.15	<0.015	<0.015							
	SULFOTEPP	mg/kg										<0.2	<0.02	<0.02							
	TETRACHLORVINPHOS	mg/kg																			
	THIONAZIN	mg/kg										<0.18	<0.018	<0.018							
	TOKUTHION	mg/kg										<0.2	<0.02	<0.02							
	TRICHLORNATE	mg/kg										<0.2	<0.02	<0.02							
ORGACIDS [HPLC]	4-CHLOROBENZENESULFONIC ACID	mg/Kg										47000	41000	270	1.4	<0.015	<0.015	0.74	<0.015	<0.015
	BENZENESULFONIC ACID	mg/Kg										<2000	<2000	13							
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg										<2000	<2000	<0.5							
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg										<5000	<5000	<2.5							
	PHTHALIC ACID	mg/Kg										<2000	<2000	1							
PCB [EPA 8082]	AROCLOR-1016	mg/kg										<0.75	<0.15	<0.075							
	AROCLOR-1221	mg/kg										<0.75	<0.15	<0.075							
	AROCLOR-1232	mg/kg										<0.75	<0.15	<0.075							
	AROCLOR-1242	mg/kg										<0.75	<0.15	<0.075							
	AROCLOR-1248	mg/kg										<0.75	<0.15	<0.075							
	AROCLOR-1254	mg/kg										<0.75	<0.15	<0.075							
	AROCLOR-1260	mg/kg										<0.75	<0.15	<0.075							
SVOC [EPA 8270C/M]	1,1'-SULFONYBIS BENZENE	mg/kg										220	56	<49							
	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg										64	<12	<12							
	1,2,4,5-TETRACHLOROBENZENE	mg/kg										<2.5	<2.5	<2.5							
	1,2,4-TRICHLOROBENZENE	mg/kg										<2.5	<2.5	<2.5							
	1,2-DICHLOROBENZENE	mg/kg										1.6	<2.5	<2.5							
	1,3-DICHLOROBENZENE	mg/kg										<2.5	<2.5	<2.5							
	1,4-DICHLOROBENZENE	mg/kg										<2.5	<2.5	<2.5							
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg										<2.5	<2.5	2.1							
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																			

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Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-98 SB-EC-98-2.0 2-2.5 11/11/2009	SB-EC-98 SB-EC-98-3.0 3-3.5 11/11/2009	SB-EC-98 SB-EC-98-5.0 5-5.5 11/11/2009	SB-EC-98 SB-EC-98-10.0 10-10.5 11/11/2009	SB-EC-98 SB-EC-98-15.0 15-15.5 11/11/2009	SB-EC-98 SB-EC-98-20.0 20-20.5 11/11/2009	SB-EC-98 SB-EC-98-25.0 25-25.5 11/11/2009	SB-EC-98 SB-EC-98-30.0 30-30.5 11/11/2009	SB-EC-98 SB-EC-98-35.0 35-35.5 11/11/2009	WC-05 WC-05-7.0 7-9 2/10/2009	WC-06 WC-06-7.0 7-9 2/10/2009	WC-07 WC-07-8.0 8-10 2/10/2009	SB-EC-132 SB-EC-132-0.5 0-0.5 5/20/2013	SB-EC-132 SB-EC-132-5.0 4.5-5 5/20/2013	SB-EC-132 SB-EC-132-10.0 9.5-10 5/20/2013	SB-EC-132 SB-EC-132-20.0 19.5-20 5/20/2013	SB-EC-133 SB-EC-133-0.5 0-0.5 5/18/2013	SB-EC-133 SB-EC-133-8.0 7.5-8 5/18/2013
SVOC [EPA 8270C/M]	2,4,5-TRICHLOROPHENOL	mg/kg										<2.5	<2.5	<2.5							
	2,4,6-TRICHLOROPHENOL	mg/kg										<2.5	<2.5	<2.5							
	2,4-DICHLOROPHENOL	mg/kg										<2.5	<2.5	<2.5							
	2,4-DIMETHYLPHENOL	mg/kg										<2.5	<2.5	<2.5							
	2,4-DINITROPHENOL	mg/kg										<5	<4.9	<4.9							
	2,4-DINITROTOLUENE	mg/kg										<2.5	<2.5	<2.5							
	2,6-DINITROTOLUENE	mg/kg																			
	2-CHLORONAPHTHALENE	mg/kg										<2.5	<2.5	<2.5							
	2-CHLOROPHENOL	mg/kg										<2.5	<2.5	<2.5							
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																			
	2-METHYLNAPHTHALENE	mg/kg																			
	2-METHYLPHENOL	mg/kg																			
	2-NITROANILINE	mg/kg										<2.5	<2.5	<2.5							
	2-NITROPHENOL	mg/kg										<2.5	<2.5	<2.5							
	3,3'-DICHLOROBENZIDINE	mg/kg										<6.2UJ	<6.2	<6.2							
	3-HEXENE-2,5-DIONE	mg/kg																			
	3-NITROANILINE	mg/kg																			
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																			
	4-BROMOPHENYL PHENYL ETHER	mg/kg										<2.5	<2.5	<2.5							
	4-CHLORO-3-METHYLPHENOL	mg/kg										<2.5	<2.5	<2.5							
	4-CHLOROANILINE	mg/kg										<2.5	<2.5	<2.5							
	4-CHLOROBENZENETHIOL	mg/kg										25	<49	<49							
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg										2.3	<2.5	<2.5							
	4-CHLOROPHENYL PHENYL ETHER	mg/kg										<2.5	<2.5	<2.5							
	4-METHYLPHENOL	mg/kg										<2.5	<2.5	<2.5							
	4-NITROANILINE	mg/kg										<6.2	<6.2	<6.2							
	4-NITROPHENOL	mg/kg										<6.2	<6.2	<6.2							
	ACENAPHTHENE	mg/kg										<2.5	<2.5	<2.5							
	ACENAPHTHYLENE	mg/kg										<2.5	<2.5	<2.5							
	ANILINE	mg/kg																			
	ANTHRACENE	mg/kg										<2.5	<2.5	<2.5							
	AZOBENZENE	mg/kg										<2.5	<2.5	<2.5							
	BENZO(A)ANTHRACENE	mg/kg										<2.5UJ	<2.5	<2.5							
	BENZO(A)PYRENE	mg/kg												<2.5							
	BENZO(B)FLUORANTHENE	mg/kg												<2.5							
	BENZO(GHI)PERYLENE	mg/kg												<2.5							
	BENZO(K)FLUORANTHENE	mg/kg												<2.5							
	BENZOIC ACID	mg/kg										<6.2	<6.2	<6.2							
	BENZOPHENONE	mg/kg										<2.5	<2.5	<2.5							
	BENZYL ALCOHOL	mg/kg										<2.5	<2.5	<2.5							
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																			
	BIS(2-CHLOROETHYL)ETHER	mg/kg										<1.3	<1.3	<1.3							
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg										<2.5	<2.5	<2.5							
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg										<2.5UJ	<2.5	0.67							
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg										670	15	12							
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg										<2.5	<2.5	<2.5							
	BUTYL BENZYL PHTHALATE	mg/kg																			
	CHLORAL	mg/kg																			
	CHRYSENE	mg/kg										<2.5UJ	<2.5	<2.5							
	DIBENZO(A,H)ANTHRACENE	mg/kg												<3.1							
	DIBENZOFURAN	mg/kg										<2.5	<2.5	<2.5							
	DICHLOROACETALDEHYDE	mg/kg																			
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg										<13	<12	<12							
	DIETHYL PHTHALATE	mg/kg										<2.5	<2.5	<2.5							
	DIMETHYL PHTHALATE	mg/kg										<2.5	<2.5	<2.5							
	DIMETHYL SULFOXIDE	mg/kg																			
	DI-N-BUTYL PHTHALATE	mg/kg										<2.5	<2.5	<2.5							
	DI-N-OCTYL PHTHALATE	mg/kg										<2.5UJ	<2.5	<2.5							

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-98 SB-EC-98-2.0 2-2.5 11/11/2009	SB-EC-98 SB-EC-98-3.0 3-3.5 11/11/2009	SB-EC-98 SB-EC-98-5.0 5-5.5 11/11/2009	SB-EC-98 SB-EC-98-10.0 10-10.5 11/11/2009	SB-EC-98 SB-EC-98-15.0 15-15.5 11/11/2009	SB-EC-98 SB-EC-98-20.0 20-20.5 11/11/2009	SB-EC-98 SB-EC-98-25.0 25-25.5 11/11/2009	SB-EC-98 SB-EC-98-30.0 30-30.5 11/11/2009	SB-EC-98 SB-EC-98-35.0 35-35.5 11/11/2009	WC-05 WC-05-7.0 7-9 2/10/2009	WC-06 WC-06-7.0 7-9 2/10/2009	WC-07 WC-07-8.0 8-10 2/10/2009	SB-EC-132 SB-EC-132-0.5 0-0.5 5/20/2013	SB-EC-132 SB-EC-132-5.0 4.5-5 5/20/2013	SB-EC-132 SB-EC-132-10.0 9.5-10 5/20/2013	SB-EC-132 SB-EC-132-20.0 19.5-20 5/20/2013	SB-EC-133 SB-EC-133-0.5 0-0.5 5/18/2013	SB-EC-133 SB-EC-133-8.0 7.5-8 5/18/2013
SVOC	FLUORANTHENE	mg/kg										<2.5	<2.5	<2.5						
[EPA 8270C/M]	FLUORENE	mg/kg										<2.5	<2.5	<2.5						
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg										<13	<12	<12						
	HEXACHLOROBENZENE	mg/kg										<2.5	<2.5	<2.5						
	HEXACHLOROBUTADIENE	mg/kg										<2.5	<2.5	<2.5						
	HEXACHLOROCYCLOPENTADIENE	mg/kg										<6.2	<6.2	<6.2						
	HEXACHLOROETHANE	mg/kg										<2.5	<2.5	<2.5						
	INDENO(1,2,3-CD)PYRENE	mg/kg												<2.5						
	ISOPHORONE	mg/kg										<2.5	<2.5	<2.5						
	NAPHTHALENE	mg/kg										<2.5	<2.5	<2.5						
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg																		
	NITROBENZENE	mg/kg										<2.5	<2.5	<2.5						
	N-NITROSODIMETHYLAMINE	mg/kg										<2.5	<2.5	<2.5						
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg										<1.9	<1.9	<1.9						
	N-NITROSODIPHENYLAMINE	mg/kg										<2.5	<2.5	<2.5						
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg										1400	38	4.3						
	PENTACHLOROBENZENE	mg/kg										<2.5	<2.5	<2.5						
	PENTACHLOROPHENOL	mg/kg										<6.2	<6.2	<6.2						
	PHENANTHRENE	mg/kg										<2.5	<2.5	<2.5						
	PHENOL	mg/kg										<2.5	<2.5	<2.5						
	PHENYL DISULFIDE	mg/kg										<2.5	<2.5	<2.5						
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg										<2.5UJ	<2.5	<2.5						
	PYRIDINE	mg/kg										<1.5	<1.5	<1.5						
	THIOPHENOL	mg/kg										<50	<49	<49						
VOC	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00082	<0.00053UJ	<0.00057	<0.02	<0.044	<0.14	<0.045	<0.098	<0.17	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00064	<0.00063	<0.00063	<0.00071	<0.00052	<0.00052
[EPA 8260B]	1,1,1-TRICHLOROETHANE	mg/kg	<0.001	<0.00065UJ	<0.0007	<0.036UJ	<0.079	<0.26	<0.082	<0.18	<0.31	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00078	<0.00077	<0.00078	<0.00087	<0.00063	<0.00063
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.0012	<0.0008UJ	<0.00086	<0.052	<0.11	<0.36	<0.12	<0.25	<0.44	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00096	<0.00094	<0.00096	<0.0011	<0.00078	<0.00078
	1,1,2-TRICHLOROETHANE	mg/kg	<0.0012	<0.00081UJ	<0.00087	<0.051	<0.11	<0.36	<0.11	<0.25	<0.43	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00098	<0.00096	<0.00097	<0.0011	<0.00079	<0.00079
	1,1-DICHLOROETHANE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.038	<0.083	<0.27	<0.086	<0.19	<0.32	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00056	<0.00055	<0.00056	<0.00062	<0.00045	<0.00045
	1,1-DICHLOROETHENE	mg/kg	<0.00086	<0.00056UJ	<0.0006	<0.046	<0.1	<0.32	<0.1	<0.22	<0.39	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00067	<0.00066	<0.00067	<0.00075	<0.00054	<0.00054
	1,1-DICHLOROPROPENE	mg/kg	<0.00057	<0.00037UJ	<0.0004	<0.037	<0.081	<0.26	<0.084	<0.18	<0.32	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00045	<0.00044	<0.00044	<0.0005	<0.00036	<0.00036
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.055	<0.12UJ	<0.39UJ	<0.12UJ	<0.27UJ	<0.47UJ	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.046	<0.1	<0.32	<0.1	<0.22	<0.39	<0.43UJ	<0.0099UJ	<0.01UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	1,2,4-TRICHLOROBENZENE	mg/kg	0.0083	0.013J-	0.0015	<0.049	<0.11UJ	<0.34UJ	<0.11UJ	<0.24UJ	<0.41UJ	0.07J-	0.0036J-	0.0046J-	0.0022	<0.0011	<0.0011	<0.0012	0.0059	<0.00091
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.0011	<0.00073UJ	<0.00078	<0.032	<0.069	<0.22	<0.071	<0.15	<0.27	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00087	0.0019	0.0016	0.0015	0.0022	0.0024
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0021	<0.0014UJ	<0.0015	<0.056	<0.12	<0.4	<0.13	<0.27	<0.48	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0017	<0.0016	<0.0017	<0.0019	<0.0014	<0.0014
	1,2-DIBROMOETHANE	mg/kg	<0.0011	<0.00074UJ	<0.0008	<0.038	<0.083UJ	<0.27UJ	<0.086UJ	<0.19UJ	<0.32UJ	<0.085UJ	<0.002UJ	<0.0021UJ	<0.0009	<0.00088	<0.00089	<0.001	<0.00072	<0.00072
	1,2-DICHLOROBENZENE	mg/kg	<0.0014	<0.00088UJ	0.25	<0.031	<0.067	<0.22	<0.069	<0.15	<0.26	4.5J-	0.11J-	0.0014J-	<0.0011	<0.001	<0.0011	<0.0012	<0.00086	<0.00086
	1,2-DICHLOROETHANE	mg/kg	<0.0011	<0.00074UJ	<0.0008	<0.039UJ	<0.085	<0.28	<0.088	<0.19	<0.33	<0.085UJ	<0.002UJ	<0.0021UJ	<0.0009	<0.00088	<0.00089	<0.001	<0.00072	<0.00072
	1,2-DICHLOROPROPANE	mg/kg	<0.0011	<0.00074UJ	<0.0008	<0.033	<0.073	<0.24	<0.075	<0.16	<0.28	<0.085UJ	<0.002UJ	<0.0021UJ	<0.0009	<0.00088	<0.00089	<0.001	<0.00072	<0.00072
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.0009	<0.00059UJ	<0.00063	<0.029	<0.062	<0.2	<0.064	<0.14	<0.24	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00071	<0.00069	<0.0007	<0.00078	<0.00057	<0.00057
	1,3-DICHLOROBENZENE	mg/kg	<0.0012	<0.00078UJ	0.009	<0.03	<0.065	<0.21	<0.067	<0.14	<0.25	0.026J-	<0.002UJ	<0.0021UJ	<0.00094	<0.00092	<0.00093	<0.001	<0.00076	<0.00076
	1,3-DICHLOROPROPANE	mg/kg	<0.0009	<0.00059UJ	<0.00063	<0.034	<0.075	<0.24	<0.077	<0.17	<0.29	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00071	<0.00069	<0.0007	<0.00078	<0.00057	<0.00057
	1,4-DICHLOROBENZENE	mg/kg	<0.0013	<0.00088UJ	0.0083	<0.033	<0.071	<0.23	<0.073	<0.16	<0.27	0.41J-	0.013J-	<0.0021UJ	<0.0011	<0.001	<0.001	<0.0012	<0.00085	<0.00085
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	2,2-DICHLOROPROPANE	mg/kg	<0.00086	<0.00056UJ	<0.0006	<0.026UJ	<0.056	<0.18	<0.058	<0.13	<0.22	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00067	<0.00066	<0.00067	<0.00075	<0.00054	<0.00054
	2,2-DIMETHYLPENTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	2,3-DIMETHYLPENTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	0.73	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	2,4-DIMETHYLPENTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	2-BUTANONE	mg/kg	<0.0086	<0.0056UJ	<0.006	<0.69	<1.5	<4.8	<1.5	<3.3	<5.8	<0.85UJ	<0.0099UJ	<0.01UJ	0.016	0.0086	<0.0067	0.0091	<0.0054	<0.0054
	2-CHLOROTOLUENE	mg/kg	<0.0012	<0.00081UJ	<0.00087	<0.031	<0.067	<0.22	<0.069	<0.15	<0.26	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00098	<0.00096	<0.00097	<0.0011	<0.00079	<0.00079
	2-HEXANONE	mg/kg	<0.013	<0.0085UJ	<0.0091	<0.096	<0.21	<0.67	<0.21	<0.46	<0.81	<0.43UJ	<0.0099UJ	<0.01UJ	<0.01	<0.01	<0.01	<0.011	<0.0082	<0.0082
	2-METHYLHEXANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	2.2	1.7	2.3	2.8	<0.17UJ	<0.002UJ	0.0025J-	0.004	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	3,3-DIMETHYLPENTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0022	<0.0022	<0.0022	<0.0025	<0.0018	<0.0018
	3-ETHYLPENTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.17UJ	<0.002UJ	<0.0021UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091

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Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
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Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-98 SB-EC-98-2.0 2-2.5 11/11/2009	SB-EC-98 SB-EC-98-3.0 3-3.5 11/11/2009	SB-EC-98 SB-EC-98-5.0 5-5.5 11/11/2009	SB-EC-98 SB-EC-98-10.0 10-10.5 11/11/2009	SB-EC-98 SB-EC-98-15.0 15-15.5 11/11/2009	SB-EC-98 SB-EC-98-20.0 20-20.5 11/11/2009	SB-EC-98 SB-EC-98-25.0 25-25.5 11/11/2009	SB-EC-98 SB-EC-98-30.0 30-30.5 11/11/2009	SB-EC-98 SB-EC-98-35.0 35-35.5 11/11/2009	WC-05 WC-05-7.0 7-9 2/10/2009	WC-06 WC-06-7.0 7-9 2/10/2009	WC-07 WC-07-8.0 8-10 2/10/2009	SB-EC-132 SB-EC-132-0.5 0-0.5 5/20/2013	SB-EC-132 SB-EC-132-5.0 4.5-5 5/20/2013	SB-EC-132 SB-EC-132-10.0 9.5-10 5/20/2013	SB-EC-132 SB-EC-132-20.0 19.5-20 5/20/2013	SB-EC-133 SB-EC-133-0.5 0-0.5 5/18/2013	SB-EC-133 SB-EC-133-8.0 7.5-8 5/18/2013
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	<0.0014	<0.00093UJ	<0.001	0.049	<0.1	3.6	2.2	3.4	4.2	<0.17UJ	<0.002UJ	0.0027J-	0.0028	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	4-CHLOROTOLUENE	mg/kg	<0.0011	<0.00069UJ	<0.00074	<0.031	<0.067	<0.22	<0.069	<0.15	<0.26	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00083	<0.00081	<0.00082	<0.00092	<0.00067	<0.00067
	4-METHYL-2-PENTANONE	mg/kg	<0.0064	<0.0042UJ	<0.0045	<0.37	<0.81	<2.6	<0.84	<1.8	<3.2	<0.43UJ	<0.0049UJ	<0.0052UJ	<0.005	<0.0049	<0.005	<0.0056	<0.0041	<0.0041
	ACETONE	mg/kg	<0.011	<0.0074UJ	0.036	<1.1	<2.3	<7.4	<2.4	<5.1	<8.9	<1.3UJ	0.06J-	0.037J-	0.11	0.06	0.039	0.057	0.029	0.031
	BENZENE	mg/kg	0.0049	0.0075J-	0.006	2.7	4.4	150	62	110	210	0.053J-	0.0055J-	0.22J-	0.0012	<0.00055	0.003	0.0038	0.00057	<0.00045
	BROMOBENZENE	mg/kg	<0.0012	<0.00078UJ	<0.00084	<0.033	<0.071	<0.23	<0.073	<0.16	<0.27	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00094	<0.00092	<0.00093	<0.001	<0.00076	<0.00076
	BROMOCHLOROMETHANE	mg/kg	<0.0013	<0.00084UJ	<0.0009	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.001	<0.00099	<0.001	<0.0011	<0.00081	<0.00082
	BROMODICHLOROMETHANE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.03UJ	<0.065	<0.21	<0.067	<0.14	<0.25	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00056	<0.00055	<0.00056	<0.00062	<0.00045	<0.00045
	BROMOFORM	mg/kg	<0.0011	<0.00074UJ	<0.0008	<0.037	<0.081	<0.26	<0.084	<0.18	<0.32	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0009	<0.00088	<0.00089	<0.00096	<0.00076	<0.00072
	BROMOMETHANE	mg/kg	<0.0013	<0.00086UJ	<0.00092	<0.043UJ	<0.094	<0.3	<0.097	<0.21	<0.36	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.001	<0.001	<0.001	<0.0011	<0.00083	<0.00083
	CARBON DISULFIDE	mg/kg	<0.0014	<0.0009UJ	0.0095	0.11	<0.12	0.55	0.22	0.29	<0.46	<0.21UJ	<0.0049UJ	0.014J-	<0.0011	<0.0011	<0.0011	0.003	<0.00088	<0.00088
	CARBON TETRACHLORIDE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.027UJ	<0.058	<0.19	<0.06	<0.13	<0.23	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00056	<0.00055	<0.00056	<0.00062	<0.00045	<0.00045
	CHLOROBENZENE	mg/kg	0.0075	0.004J-	0.045	0.06	0.12	12	3.2	13	20	1.6J-	0.096J-	0.0094J-	0.00093	<0.00057	<0.00058	<0.00065	0.00069	<0.00047
	CHLOROETHANE	mg/kg	<0.0021	<0.0014UJ	0.0044	<0.043	<0.094	<0.3	<0.097	<0.21	<0.36	<0.21UJ	<0.0049UJ	0.004J-	<0.0017	<0.0016	<0.0017	<0.0019	<0.0014	<0.0014
	CHLOROFORM	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.042UJ	<0.092	<0.3	<0.094	<0.2	<0.36	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00056	<0.00055	<0.00056	<0.00062	<0.00045	<0.00045
	CHLOROMETHANE	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.0012	<0.00077UJ	<0.00083	<0.046	<0.1	<0.32	<0.1	<0.22	<0.39	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00093	<0.00091	<0.00092	<0.001	<0.00075	<0.00075
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00063	<0.00041UJ	<0.00044	<0.034	<0.075	<0.24	<0.077	<0.17	<0.29	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00049	<0.00048	<0.00049	<0.00055	<0.0004	<0.0004
	DIBROMOCHLOROMETHANE	mg/kg	<0.001	<0.00065UJ	<0.0007	<0.026	<0.056UJ	<0.18UJ	<0.058UJ	<0.13UJ	<0.22UJ	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00078	<0.00077	<0.00078	<0.00087	<0.00063	<0.00063
	DIBROMOMETHANE	mg/kg	<0.0013	<0.00084UJ	<0.0009	<0.04	<0.088	<0.28	<0.09	<0.2	<0.34	<0.085UJ	<0.002UJ	<0.0021UJ	<0.001	<0.00099	<0.001	<0.0011	<0.00081	<0.00082
	DICHLORODIFLUOROMETHANE	mg/kg	<0.0021	<0.0014UJ	<0.0015	<0.058UJ	<0.13	<0.41	<0.13	<0.28	<0.49	<0.17UJ	<0.0049UJ	<0.0052UJ	<0.0017	<0.0016	<0.0017	<0.0019	<0.0014	<0.0014
	DIMETHYL DISULFIDE	mg/kg	0.004	0.0043J-	0.0077	<0.048	<0.1	<0.34	0.38	2.7	37	<0.17UJ	<0.002UJ	0.024J-	<0.0011	<0.0011	<0.0011	0.0057	<0.0009	<0.00091
	ETHYLBENZENE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.026	<0.056	<0.18	<0.058	<0.13	<0.22	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00056	0.00064	0.00061	0.00075	0.00092	0.0012
	HEXACHLOROBUTADIENE	mg/kg	<0.0011	<0.00074UJ	<0.0008	<0.037UJ	<0.081UJ	<0.26UJ	<0.084UJ	<0.18UJ	<0.32UJ	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0009	<0.00088	<0.00089	<0.001	<0.00072	<0.00072
	ISOPROPYLBENZENE	mg/kg													<0.00061	<0.00059	<0.0006	<0.00067	<0.00049	<0.00049
	M,P-XYLENE	mg/kg	<0.0011	<0.00074UJ	<0.0008	<0.051	<0.11	<0.36	<0.11	<0.25	<0.43	<0.085UJ	<0.002UJ	<0.0021UJ	<0.0009	0.0024	0.0022	0.002	0.003	0.0043
	METHYLENE CHLORIDE	mg/kg	<0.0093	<0.0061UJ	<0.0065	<0.41	<0.9	<2.9	<0.92	<2	<3.5	<0.85UJ	<0.02UJ	<0.021UJ	<0.0073	<0.0071	<0.0072	<0.0081	<0.0059	<0.0059
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.0014	<0.00093UJ	<0.001	<0.059	<0.13	<0.42	<0.13	<0.29	<0.5	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0011	<0.0011	<0.0011	<0.0012	<0.0009	<0.00091
	NAPHTHALENE	mg/kg	<0.0016	<0.001UJ	<0.0011	<0.077	<0.17	<0.54	<0.17	<0.38	<0.65	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0012	<0.0012	<0.0012	<0.0014	<0.00099	<0.001
	N-BUTYLBENZENE	mg/kg	<0.001	<0.00067UJ	<0.00072	<0.033	<0.071	<0.23	<0.073	<0.16	<0.27	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00081	<0.00079	<0.0008	<0.0009	<0.00065	<0.00065
	N-HEPTANE	mg/kg	<0.0014	<0.00093UJ	<0.001	0.076	<0.1	4.4	2.1	3.9	4.6	<0.17UJ	<0.002UJ	0.0025J-	0.0061	<0.0011	0.0012	<0.0012	<0.0009	<0.00091
	NONANAL	mg/kg	<0.0056	<0.0036UJ	<0.0039	<0.37	<0.81	<2.6	<0.84	<1.8	<3.2	<0.43UJ	<0.0099UJ	<0.01UJ	<0.0044	<0.0043	<0.0043	<0.0049	<0.0035	<0.0035
	N-PROPYLBENZENE	mg/kg	<0.00087	<0.00057UJ	<0.00061	<0.034	<0.075	<0.24	<0.077	<0.17	<0.29	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00068	<0.00067	<0.00068	<0.00076	<0.00055	<0.00055
	O-XYLENE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.027	<0.058UJ	<0.19UJ	<0.06UJ	<0.13UJ	<0.23UJ	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00056	0.001	0.00098	0.00093	0.0013	0.0017
	P-ISOPROPYL TOLUENE	mg/kg	<0.001	<0.00067UJ	<0.00072	<0.046	<0.1	<0.32	<0.1	<0.22	<0.39	<0.085UJ	0.0018J-	<0.0021UJ	<0.00081	<0.00079	<0.0008	<0.0009	<0.00065	<0.00065
	SEC-BUTYLBENZENE	mg/kg	<0.00096	<0.00062UJ	<0.00067	<0.03	<0.065	<0.21	<0.067	<0.14	<0.25	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00075	<0.00074	<0.00074	<0.00083	<0.00061	<0.00061
	STYRENE	mg/kg	<0.00083	<0.00054UJ	<0.00058	<0.029	<0.062	<0.2	<0.064	<0.14	<0.24	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00065	<0.00064	<0.00064	<0.00072	<0.00052	<0.00053
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.00089	<0.00058UJ	<0.00062	<0.026	<0.056	<0.18	<0.058	<0.13	<0.22	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.0007	<0.00068	<0.00069	<0.00077	<0.00056	<0.00056
	TETRACHLOROETHENE	mg/kg	<0.0007	<0.00046UJ	<0.00049	<0.042	<0.092UJ	<0.3UJ	<0.094UJ	<0.2UJ	<0.36UJ	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00055	<0.00054	<0.00054	<0.00061	<0.00044	<0.00044
	TOLUENE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.032	<0.069	0.74	0.29	0.66	0.91	<0.085UJ	<0.002UJ	0.00085J-	0.00085	0.0024	0.0024	0.0026	0.0031	0.0045
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.001	<0.00065UJ	<0.0007	<0.048	<0.1	<0.34	<0.11	<0.23	<0.4	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00078	<0.00077	<0.00078	<0.00087	<0.00063	<0.00063
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00087	<0.00057UJ	<0.00061	<0.033	<0.073	<0.24	<0.075	<0.16	<0.28	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00068	<0.00067	<0.00068	<0.00076	<0.00055	<0.00055
	TRICHLOROETHENE	mg/kg	<0.00072	<0.00047UJ	<0.0005	<0.036	<0.079	<0.26	<0.082	<0.18	<0.31	<0.085UJ	<0.002UJ	<0.0021UJ	<0.00056	<0.00055	<0.00056	<0.00062	<0.00045	<0.00045
	TRICHLOROFLUOROMETHANE	mg/kg	<0.00077	<0.0005UJ	<0.00054	<0.055UJ	<0.12	<0.39	<0.12	<0.27	<0.47	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.00061	<0.00059	<0.0006	<0.00067	<0.00049	<0.00049
	VINYL CHLORIDE	mg/kg	<0.0013	<0.00085UJ	<0.00091	<0.062UJ	<0.14	<0.44	<0.14	<0.3	<0.53	<0.21UJ	<0.0049UJ	<0.0052UJ	<0.001	<0.001	<0.001	<0.0011	<0.00082	<0.00082

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-133	SB-EC-133	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-137	SB-EC-137	SB-EC-137	SB-EC-137
			SB-EC-133-13.0	SB-EC-133-20.0	SB-EC-134-0.5	SB-EC-134-5.0	SB-EC-134-10.0	SB-EC-134-20.0	SB-EC-135-0.5	SB-EC-135-5.0	SB-EC-135-13.0	SB-EC-135-20.0	SB-EC-136-0.5	SB-EC-136-5.0	SB-EC-136-10.0	SB-EC-136-20.0	SB-EC-137-0.5	SB-EC-137-5.0	SB-EC-137-10.0	SB-EC-137-20.0
			12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20
			5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg																		
	CHLOROACETALDEHYDE	mg/kg																		
	FORMALDEHYDE	mg/kg																		
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT			<0				<0				<0				<0			
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT			<0				<0				<0				<0			
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT			<0				<0				<0				<0			
	SHORT AMPHIBOLE STRUCTURES	COUNT			<0				<0				<0				<0			
	SHORT ASBESTOS STRUCTURES	COUNT			<0				<0				<0				<0			
	SHORT CHRYSOTILE STRUCTURES	COUNT			<0				<0				<0				<0			
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT			<0				<0				<0				<0			
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT			<0				<0				<0				<0			
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT			<0				<0				<0				<0			
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg																		
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg																		
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg																		
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	2,3,7,8-TCDD	ng/kg																		
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg																		
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg																		
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg																		
	HEPTACHLORINATED DIBENZOFURAN	ng/kg																		
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	HEXACHLORINATED DIBENZOFURAN	ng/kg																		
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	OCTACHLORINATED DIBENZOFURAN	ng/kg																		
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	PENTACHLORINATED DIBENZOFURAN	ng/kg																		
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
	TETRACHLORINATED DIBENZOFURAN	ng/kg																		
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg																		
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g																		
	Fraction organic Carbon	g/g																		
	Percent Moisture	%																		
	PH	pH Units																		
	TOTAL ORGANIC CARBON	mg/kg																		
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg																		
	EFH (C8 - C40)	mg/kg																		
	ETHANOL	mg/kg																		
	METHANOL	mg/kg																		
	ORO (C25-C40)	mg/kg																		
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg																		
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg																		
	CHLORIDE	mg/kg																		
	CYANIDE	mg/kg																		
	FLUORIDE	mg/kg																		
	IODIDE	mg/kg																		
	NITRATE (AS N)	mg/kg																		
	PH	pH Units																		
	PHOSPHATE	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	SULFATE	mg/kg																		
	TOTAL CARBON	mg/kg																		
	TOTAL INORGANIC CARBON	mg/kg																		
	TOTAL ORGANIC CARBON	mg/Kg																		

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-133 SB-EC-133-13.0 12.5-13 5/18/2013	SB-EC-133 SB-EC-133-20.0 19.5-20 5/18/2013	SB-EC-134 SB-EC-134-0.5 0-0.5 5/18/2013	SB-EC-134 SB-EC-134-5.0 4.5-5 5/18/2013	SB-EC-134 SB-EC-134-10.0 9.5-10 5/18/2013	SB-EC-134 SB-EC-134-20.0 19.5-20 5/18/2013	SB-EC-135 SB-EC-135-0.5 0-0.5 5/20/2013	SB-EC-135 SB-EC-135-5.0 4.5-5 5/20/2013	SB-EC-135 SB-EC-135-13.0 12.5-13 5/20/2013	SB-EC-135 SB-EC-135-20.0 19.5-20 5/20/2013	SB-EC-136 SB-EC-136-0.5 0-0.5 5/19/2013	SB-EC-136 SB-EC-136-5.0 4.5-5 5/19/2013	SB-EC-136 SB-EC-136-10.0 9.5-10 5/19/2013	SB-EC-136 SB-EC-136-20.0 19.5-20 5/19/2013	SB-EC-137 SB-EC-137-0.5 0-0.5 5/19/2013	SB-EC-137 SB-EC-137-5.0 4.5-5 5/19/2013	SB-EC-137 SB-EC-137-10.0 9.5-10 5/19/2013	SB-EC-137 SB-EC-137-20.0 19.5-20 5/19/2013
METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg																		
	ANTIMONY	mg/kg																		
	ARSENIC	mg/kg																		
	BARIUM	mg/kg																		
	BERYLLIUM	mg/kg																		
	BORON	mg/kg																		
	CADMIUM	mg/kg																		
	CALCIUM	mg/kg																		
	CHROMIUM	mg/kg																		
	COBALT	mg/kg																		
	COPPER	mg/kg																		
	HEXAVALENT CHROMIUM	mg/kg																		
	IRON	mg/kg																		
	LEAD	mg/kg																		
	MAGNESIUM	mg/kg																		
	MANGANESE	mg/kg																		
	MERCURY	mg/kg																		
	MOLYBDENUM	mg/kg																		
	NICKEL	mg/kg																		
	PHOSPHORUS (WHITE)	mg/kg																		
	PHOSPHORUS, TOTAL (AS P)	mg/kg																		
	POTASSIUM	mg/kg																		
	Potassium	mg/kg																		
	SELENIUM	mg/kg																		
	SILVER	mg/kg																		
	SODIUM	mg/kg																		
	THALLIUM	mg/kg																		
	TIN	mg/kg																		
	TITANIUM	mg/kg																		
	URANIUM	mg/kg																		
	VANADIUM	mg/kg																		
	ZINC	mg/kg																		
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	2,4'-DDE	mg/kg	<0.0016	<0.0078	<0.015	0.79	0.011	<0.0078		0.03	2.2	<0.0077	0.0033	0.68	<0.0078	<0.0016	0.0068	<0.076	<5.6	<0.077
	2,4'-DDT	mg/kg	<0.0016	<0.0078	<0.015	0.86	0.004	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	4,4'-DDD	mg/kg	<0.0016	<0.0078	<0.015	0.14	<0.0016	<0.0078		0.11	0.67	<0.0077	<0.0015	0.1	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	4,4'-DDE	mg/kg	<0.0016	<0.0078	0.022	0.85	0.015	<0.0078		<0.023	<0.11	<0.0077	0.0045	1.2	<0.0078	<0.0016	0.019	<0.076	<5.6	<0.077
	4,4'-DDT	mg/kg	<0.0016	<0.0078	<0.015	3.4	<0.0016	<0.0078		<0.023	7.1	<0.0077	0.0018	0.2	<0.0078	<0.0016	0.011	0.41	<5.6	<0.077
	ALDRIN	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	ALPHA-BHC	mg/kg	<0.0016	<0.0078	0.024	6.5	<0.016	<0.0078	0.36	<0.023	450	0.45	0.32	<0.081	<0.0078	<0.0016	0.17	1.3	1300	2.1
	BETA-BHC	mg/kg	0.0018	<0.0078	0.44	6.4	<0.016	<0.0078	1.4	<0.023	95	0.052	0.47	1.6	<0.0078	<0.0016	0.82	1.9	160	0.37
	CHLORDANE	mg/kg	<0.01	<0.052	<0.1	<0.054	<0.011	<0.052	<0.01	<0.16	<0.75	<0.051	<0.01	<0.54	<0.052	<0.011	<0.02	<0.51	<37	<0.52
	DELTA-BHC	mg/kg	<0.0016	<0.0078	0.016	0.034	<0.0016	<0.0078		2.4	3	0.011	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	7.6	<0.077
	DIELDRIN	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	ENDOSULFAN I	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	ENDOSULFAN II	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	ENDOSULFAN SULFATE	mg/kg	<0.0021	<0.01	<0.02	<0.011	<0.0021	<0.01		<0.031	<0.15	<0.01	<0.002	<0.11	<0.01	<0.0021	<0.004	<0.1	<7.5	<0.1
	ENDRIN	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	ENDRIN ALDEHYDE	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	ENDRIN KETONE	mg/kg	<0.0021	<0.01	<0.02	<0.011	<0.0021	<0.01		<0.031	<0.15	<0.01	<0.002	<0.11	<0.01	<0.0021	<0.004	<0.1	<7.5	<0.1
	GAMMA-BHC (LINDANE)	mg/kg	<0.0016	<0.0078	<0.015	0.26	<0.0016	<0.0078		<0.023	10	<0.0077	0.0051	<0.081	<0.0078	<0.0016	0.007	<0.076	20	<0.077
	HEPTACHLOR	mg/kg	<0.0021	<0.01	<0.02	<0.011	<0.0021	<0.01		<0.31	<0.15	<0.01	<0.002	<0.11	<0.01	<0.0021	<0.004	<0.1	<7.5	<0.1
	HEPTACHLOR EPOXIDE	mg/kg	<0.0021	<0.01	<0.02	<0.011	<0.0021	<0.01		<0.031	<0.15	<0.01	<0.002	<0.11	<0.01	<0.0021	<0.004	<0.1	<7.5	<0.1
	METHOXYCHLOR	mg/kg	<0.0016	<0.0078	<0.015	<0.0081	<0.0016	<0.0078		<0.023	<0.11	<0.0077	<0.0015	<0.081	<0.0078	<0.0016	<0.003	<0.076	<5.6	<0.077
	TOXAPHENE	mg/kg	<0.052	<0.26	<0.5	<0.27	<0.053	<0.26	<0.051	<0.78	<3.8	<0.26	<0.05	<2.7	<0.26	<0.053	<0.1	<2.5	<190	<2.6

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-133 SB-EC-133-13.0 12.5-13 5/18/2013	SB-EC-133 SB-EC-133-20.0 19.5-20 5/18/2013	SB-EC-134 SB-EC-134-0.5 0-0.5 5/18/2013	SB-EC-134 SB-EC-134-5.0 4.5-5 5/18/2013	SB-EC-134 SB-EC-134-10.0 9.5-10 5/18/2013	SB-EC-134 SB-EC-134-20.0 19.5-20 5/18/2013	SB-EC-135 SB-EC-135-0.5 0-0.5 5/20/2013	SB-EC-135 SB-EC-135-5.0 4.5-5 5/20/2013	SB-EC-135 SB-EC-135-13.0 12.5-13 5/20/2013	SB-EC-135 SB-EC-135-20.0 19.5-20 5/20/2013	SB-EC-136 SB-EC-136-0.5 0-0.5 5/19/2013	SB-EC-136 SB-EC-136-5.0 4.5-5 5/19/2013	SB-EC-136 SB-EC-136-10.0 9.5-10 5/19/2013	SB-EC-136 SB-EC-136-20.0 19.5-20 5/19/2013	SB-EC-137 SB-EC-137-0.5 0-0.5 5/19/2013	SB-EC-137 SB-EC-137-5.0 4.5-5 5/19/2013	SB-EC-137 SB-EC-137-10.0 9.5-10 5/19/2013	SB-EC-137 SB-EC-137-20.0 19.5-20 5/19/2013
OP PEST [EPA 8141A]	AZINPHOS-METHYL	mg/kg																		
	BOLSTAR	mg/kg																		
	CARBOPHENOTHION (TRITHION)	mg/kg																		
	CHLORPYRIFOS	mg/kg																		
	COUMAPHOS	mg/kg																		
	DEMETON	mg/kg																		
	DEMETON-O	mg/kg																		
	DIAZINON	mg/kg																		
	DICHLORVOS	mg/kg																		
	DIMETHOATE	mg/kg																		
	DISULFOTON	mg/kg																		
	EPN	mg/kg																		
	ETHION	mg/kg																		
	ETHOPROP	mg/kg																		
	ETHYL PARATHION	mg/kg																		
	FAMPHUR	mg/kg																		
	FENSULFOTHION	mg/kg																		
	FENTHION	mg/kg																		
	MALATHION	mg/kg																		
	MERPHOS	mg/kg																		
	METHYL CARBOPHENOTHION	mg/kg																		
	METHYL PARATHION	mg/kg																		
	MEVINPHOS	mg/kg																		
	NALED	mg/kg																		
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg																		
	PHORATE	mg/kg																		
	PHOSMET	mg/kg																		
	RONNEL	mg/kg																		
	STIROPHOS	mg/kg																		
	SULFOTEPP	mg/kg																		
	TETRACHLORVINPHOS	mg/kg																		
	THIONAZIN	mg/kg																		
	TOKUTHION	mg/kg																		
	TRICHLORNATE	mg/kg																		
ORGACIDS [HPLC]	4-CHLOROBENZENESULFONIC ACID	mg/Kg	<0.015	<0.015	<0.015	0.86	750	5.2	<0.015	2.6	16000	12	<0.015	<0.015	<0.015	<0.015	<0.015	11	1100	84
	BENZENESULFONIC ACID	mg/Kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg																		
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg																		
	PHTHALIC ACID	mg/Kg																		
PCB [EPA 8082]	AROCLOR-1016	mg/kg																		
	AROCLOR-1221	mg/kg																		
	AROCLOR-1232	mg/kg																		
	AROCLOR-1242	mg/kg																		
	AROCLOR-1248	mg/kg																		
	AROCLOR-1254	mg/kg																		
	AROCLOR-1260	mg/kg																		
SVOC [EPA 8270C/M]	1,1'-SULFONYBIS BENZENE	mg/kg																		
	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg																		
	1,2,4,5-TETRACHLOROBENZENE	mg/kg																		
	1,2,4-TRICHLOROBENZENE	mg/kg																		
	1,2-DICHLOROBENZENE	mg/kg																		
	1,3-DICHLOROBENZENE	mg/kg																		
	1,4-DICHLOROBENZENE	mg/kg																		
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg																		
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg																		

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Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-133	SB-EC-133	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-137	SB-EC-137	SB-EC-137	SB-EC-137
			SB-EC-133-13.0	SB-EC-133-20.0	SB-EC-134-0.5	SB-EC-134-5.0	SB-EC-134-10.0	SB-EC-134-20.0	SB-EC-135-0.5	SB-EC-135-5.0	SB-EC-135-13.0	SB-EC-135-20.0	SB-EC-136-0.5	SB-EC-136-5.0	SB-EC-136-10.0	SB-EC-136-20.0	SB-EC-137-0.5	SB-EC-137-5.0	SB-EC-137-10.0	SB-EC-137-20.0
			12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20
			5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013
SVOC [EPA 8270C/M]	2,4,5-TRICHLOROPHENOL	mg/kg																		
	2,4,6-TRICHLOROPHENOL	mg/kg																		
	2,4-DICHLOROPHENOL	mg/kg																		
	2,4-DIMETHYLPHENOL	mg/kg																		
	2,4-DINITROPHENOL	mg/kg																		
	2,4-DINITROTOLUENE	mg/kg																		
	2,6-DINITROTOLUENE	mg/kg																		
	2-CHLORONAPHTHALENE	mg/kg																		
	2-CHLOROPHENOL	mg/kg																		
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg																		
	2-METHYLNAPHTHALENE	mg/kg																		
	2-METHYLPHENOL	mg/kg																		
	2-NITROANILINE	mg/kg																		
	2-NITROPHENOL	mg/kg																		
	3,3'-DICHLOROBENZIDINE	mg/kg																		
	3-HEXENE-2,5-DIONE	mg/kg																		
	3-NITROANILINE	mg/kg																		
	4,6-DINITRO-2-METHYLPHENOL	mg/kg																		
	4-BROMOPHENYL PHENYL ETHER	mg/kg																		
	4-CHLORO-3-METHYLPHENOL	mg/kg																		
	4-CHLOROANILINE	mg/kg																		
	4-CHLOROBENZENETHIOL	mg/kg																		
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg																		
	4-CHLOROPHENYL PHENYL ETHER	mg/kg																		
	4-METHYLPHENOL	mg/kg																		
	4-NITROANILINE	mg/kg																		
	4-NITROPHENOL	mg/kg																		
	ACENAPHTHENE	mg/kg																		
	ACENAPHTHYLENE	mg/kg																		
	ANILINE	mg/kg																		
	ANTHRACENE	mg/kg																		
	AZOBENZENE	mg/kg																		
	BENZO(A)ANTHRACENE	mg/kg																		
	BENZO(A)PYRENE	mg/kg																		
	BENZO(B)FLUORANTHENE	mg/kg																		
	BENZO(GHI)PERYLENE	mg/kg																		
	BENZO(K)FLUORANTHENE	mg/kg																		
	BENZOIC ACID	mg/kg																		
	BENZOPHENONE	mg/kg																		
	BENZYL ALCOHOL	mg/kg																		
	BIS(2-CHLOROETHOXY)METHANE	mg/kg																		
	BIS(2-CHLOROETHYL)ETHER	mg/kg																		
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg																		
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg																		
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg																		
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg																		
	BUTYL BENZYL PHTHALATE	mg/kg																		
	CHLORAL	mg/kg																		
	CHRYSENE	mg/kg																		
	DIBENZO(A,H)ANTHRACENE	mg/kg																		
	DIBENZOFURAN	mg/kg																		
	DICHLOROACETALDEHYDE	mg/kg																		
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg																		
	DIETHYL PHTHALATE	mg/kg																		
	DIMETHYL PHTHALATE	mg/kg																		
	DIMETHYL SULFOXIDE	mg/kg																		
	DI-N-BUTYL PHTHALATE	mg/kg																		
	DI-N-OCTYL PHTHALATE	mg/kg																		

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-133	SB-EC-133	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-137	SB-EC-137	SB-EC-137	SB-EC-137
			SB-EC-133-13.0	SB-EC-133-20.0	SB-EC-134-0.5	SB-EC-134-5.0	SB-EC-134-10.0	SB-EC-134-20.0	SB-EC-135-0.5	SB-EC-135-5.0	SB-EC-135-13.0	SB-EC-135-20.0	SB-EC-136-0.5	SB-EC-136-5.0	SB-EC-136-10.0	SB-EC-136-20.0	SB-EC-137-0.5	SB-EC-137-5.0	SB-EC-137-10.0	SB-EC-137-20.0
			12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20
			5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013
SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg																		
	FLUORENE	mg/kg																		
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg																		
	HEXACHLOROBENZENE	mg/kg																		
	HEXACHLOROBUTADIENE	mg/kg																		
	HEXACHLOROCYCLOPENTADIENE	mg/kg																		
	HEXACHLOROETHANE	mg/kg																		
	INDENO(1,2,3-CD)PYRENE	mg/kg																		
	ISOPHORONE	mg/kg																		
	NAPHTHALENE	mg/kg																		
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg																		
	NITROBENZENE	mg/kg																		
	N-NITROSODIMETHYLAMINE	mg/kg																		
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg																		
	N-NITROSODIPHENYLAMINE	mg/kg																		
	OCTACHLOROSTYRENE	mg/kg																		
	P-CHLOROPHENYL SULFONE	mg/kg																		
	PENTACHLOROBENZENE	mg/kg																		
	PENTACHLOROPHENOL	mg/kg																		
	PHENANTHRENE	mg/kg																		
	PHENOL	mg/kg																		
	PHENYL DISULFIDE	mg/kg																		
	PHENYL SULFIDE	mg/kg																		
	PYRENE	mg/kg																		
	PYRIDINE	mg/kg																		
	THIOPHENOL	mg/kg																		
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00052	<0.00058	<0.00088	<0.00054	<0.00051	<0.00049	<0.00064	<0.021	<0.025	<0.0006	<0.00068	<0.00052	<0.00052	<0.00054	<0.00062	<0.00047	<0.019	<0.00067
	1,1,1-TRICHLOROETHANE	mg/kg	<0.00064	<0.00071	<0.0011	<0.00067	<0.00062	<0.0006	<0.00079	<0.038	<0.045	<0.00074	<0.00084	<0.00064	<0.00064	<0.00066	<0.00076	<0.00058	<0.034	<0.00082
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00079	<0.00088	<0.0013	<0.00082	<0.00077	<0.00074	<0.00097	<0.054	<0.063	<0.00091	<0.001	<0.00078	<0.00079	<0.00081	<0.00094	<0.00071	<0.049	<0.001
	1,1,2-TRICHLOROETHANE	mg/kg	<0.0008	<0.00089	<0.0013	<0.00083	<0.00078	<0.00075	<0.00098	<0.053	<0.062	<0.00092	<0.001	<0.00079	<0.0008	<0.00082	<0.00095	<0.00072	<0.048	<0.001
	1,1-DICHLOROETHANE	mg/kg	<0.00046	<0.00051	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.04	<0.047	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.036	<0.00059
	1,1-DICHLOROETHENE	mg/kg	<0.00055	<0.00061	<0.00092	<0.00057	<0.00053	<0.00052	<0.00068	<0.048	<0.056	<0.00063	<0.00072	<0.00054	<0.00055	<0.00056	<0.00065	<0.0005	<0.044	<0.00071
	1,1-DICHLOROPROPENE	mg/kg	<0.00037	<0.00041	<0.00061	<0.00038	<0.00036	<0.00034	<0.00045	<0.039	<0.046	<0.00042	<0.00048	<0.00036	<0.00037	<0.00038	<0.00044	<0.00033	<0.035	<0.00047
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.00092	<0.001	<0.0015	0.0015	<0.00089	<0.00086	0.0035	<0.057	<0.068	<0.0011	0.0018	0.001	<0.00092	<0.00094	<0.0011	<0.00083	0.15	<0.0012
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.048	<0.056	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.044	<0.0012
	1,2,4-TRICHLOROBENZENE	mg/kg	<0.00092	<0.001	<0.0015	0.031	0.0015	<0.00086	0.13	1.4	0.69	<0.0011	0.029	0.01	<0.00092	<0.00094	0.0036	0.0084	2	0.01
	1,2,4-TRIMETHYLBENZENE	mg/kg	0.002	0.0011	<0.0012	<0.00074	<0.0007	<0.00067	<0.00088	<0.033	<0.039	<0.00082	<0.00093	<0.00071	<0.00072	<0.00073	<0.00085	<0.00065	<0.03	<0.00092
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0014	<0.0015	<0.0023	<0.0014	<0.0013	<0.0013	<0.0017	<0.058	<0.069	<0.0016	<0.0018	<0.0014	<0.0014	<0.0014	<0.0016	<0.0012	<0.053	<0.0018
	1,2-DIBROMOETHANE	mg/kg	<0.00074	<0.00081	<0.0012	<0.00076	<0.00071	<0.00069	<0.0009	<0.04	<0.047	<0.00084	<0.00096	<0.00073	<0.00074	<0.00075	<0.00087	<0.00066	<0.036	<0.00094
	1,2-DICHLOROBENZENE	mg/kg	<0.00087	<0.00097	<0.0015	<0.0009	<0.00085	<0.00082	0.0044	<0.032	2.4	<0.001	<0.0011	<0.00086	<0.00087	<0.00089	<0.001	<0.00079	1.8	0.0015
	1,2-DICHLOROETHANE	mg/kg	<0.00074	<0.00081	<0.0012	<0.00076	<0.00071	<0.00069	<0.0009	<0.041	<0.048	<0.00084	<0.00096	<0.00073	<0.00074	<0.00075	<0.00087	<0.00066	<0.037	<0.00094
	1,2-DICHLOROPROPANE	mg/kg	<0.00074	<0.00081	<0.0012	<0.00076	<0.00071	<0.00069	<0.0009	<0.035	<0.041	<0.00084	<0.00096	<0.00073	<0.00074	<0.00075	<0.00087	<0.00066	<0.032	<0.00094
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.045	<0.0012
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00058	<0.00064	<0.00097	<0.0006	<0.00056	<0.00054	<0.00071	<0.03	<0.035	<0.00066	<0.00075	<0.00057	<0.00058	<0.00059	<0.00069	<0.00052	<0.027	<0.00074
	1,3-DICHLOROBENZENE	mg/kg	<0.00077	<0.00086	<0.0013	<0.0008	<0.00075	<0.00072	<0.00095	<0.031	0.079	<0.00089	<0.001	<0.00076	<0.00077	<0.00079	<0.00092	<0.0007	0.25	<0.00099
	1,3-DICHLOROPROPANE	mg/kg	<0.00058	<0.00064	<0.00097	<0.0006	<0.00056	<0.00054	<0.00071	<0.036	<0.042	<0.00066	<0.00075	<0.00057	<0.00058	<0.00059	<0.00069	<0.00052	<0.033	<0.00074
	1,4-DICHLOROBENZENE	mg/kg	<0.00087	<0.00096	<0.0014	<0.00089	<0.00084	<0.00081	0.012	<0.034	1.2	<0.00099	<0.0011	<0.00085	<0.00086	<0.00088	<0.001	0.00096	3.9	0.003
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.045	<0.0012
	2,2-DICHLOROPROPANE	mg/kg	<0.00055	<0.00061	<0.00092	<0.00057	<0.00053	<0.00052	<0.00068	<0.027	<0.032	<0.00063	<0.00072	<0.00054	<0.00055	<0.00056	<0.00065	<0.0005	<0.024	<0.00071
	2,2-DIMETHYLPENTANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.045	<0.0012
	2,3-DIMETHYLPENTANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	0.0014	<0.0011	<0.00083	0.24	<0.0012
	2,4-DIMETHYLPENTANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.045	<0.0012
	2-BUTANONE	mg/kg	0.0062	<0.0061	<0.0092	<0.0057	0.012	0.014	0.0085	<0.71	<0.84	<0.0063	0.026	<0.0054	0.0068	0.027	0.0066	0.0075	<0.65	0.0082
	2-CHLOROTOLUENE	mg/kg	<0.0008	<0.00089	<0.0013	<0.00083	<0.00078	<0.00075	<0.00098	<0.032	<0.038	<0.00092	<0.001	<0.00079	<0.0008	<0.00082	<0.00095	<0.00072	<0.029	<0.001
	2-HEXANONE	mg/kg	<0.0084	<0.0093	<0.014	<0.0087	<0.0081	<0.0078	<0.01	<0.099	<0.12	<0.0096	<0.011	<0.0083	<0.0084	<0.0086	<0.0099	<0.0075	<0.091	<0.011
	2-METHYLHEXANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	0.0027	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	0.0093	<0.0011	<0.00083	0.42	0.0032
	3,3-DIMETHYLPENTANE	mg/kg	<0.0018	<0.002	<0.0031	<0.0019	<0.0018	<0.0017	<0.0023	<0.05	<0.059	<0.0021	<0.0024	<0.0018	<0.0018	<0.0019	<0.0022	<0.0017	<0.045	<0.0024
	3-ETHYLPENTANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	0.12	<0.0012

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-133	SB-EC-133	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-134	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-135	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-136	SB-EC-137	SB-EC-137	SB-EC-137	SB-EC-137
			SB-EC-133-13.0	SB-EC-133-20.0	SB-EC-134-0.5	SB-EC-134-5.0	SB-EC-134-10.0	SB-EC-134-20.0	SB-EC-135-0.5	SB-EC-135-5.0	SB-EC-135-13.0	SB-EC-135-20.0	SB-EC-136-0.5	SB-EC-136-5.0	SB-EC-136-10.0	SB-EC-136-20.0	SB-EC-137-0.5	SB-EC-137-5.0	SB-EC-137-10.0	SB-EC-137-20.0
			12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	12.5-13	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20	0-0.5	4.5-5	9.5-10	19.5-20
			5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/18/2013	5/20/2013	5/20/2013	5/20/2013	5/20/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013	5/19/2013
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	0.0028	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	0.007	<0.0011	<0.00083	0.72	0.0035
	4-CHLOROTOLUENE	mg/kg	<0.00068	<0.00075	<0.0011	<0.0007	<0.00066	<0.00064	<0.00083	<0.032	<0.038	<0.00078	<0.00088	<0.00067	<0.00068	<0.0007	<0.00081	<0.00061	<0.029	<0.00087
	4-METHYL-2-PENTANONE	mg/kg	<0.0041	<0.0046	<0.0069	<0.0043	<0.004	<0.0039	<0.0051	<0.39	<0.46	<0.0047	<0.0054	<0.0041	<0.0041	<0.0042	<0.0049	<0.0037	<0.35	<0.0053
	ACETONE	mg/kg	0.033	0.03	0.15	0.036	0.064	0.072	0.071	<1.1	<1.3	0.017	0.17	0.03	0.059	0.14	0.045	0.049	<1	0.044
	BENZENE	mg/kg	<0.00046	<0.00051	<0.00077	0.0024	0.019	0.073	0.0011	<0.034	0.53	<0.00053	0.00096	0.00048	<0.00046	0.0033	<0.00055	0.0015	0.79	0.01
	BROMOBENZENE	mg/kg	<0.00077	<0.00086	<0.0013	<0.0008	<0.00075	<0.00072	<0.00095	<0.034	<0.04	<0.00089	<0.001	<0.00076	<0.00077	<0.00079	<0.00092	<0.0007	<0.031	<0.00099
	BROMOCHLOROMETHANE	mg/kg	<0.00083	<0.00092	<0.0014	<0.00086	<0.0008	<0.00078	<0.001	<0.05	<0.059	<0.00095	<0.0011	<0.00082	<0.00083	<0.00085	<0.00098	<0.00075	<0.045	<0.0011
	BROMODICHLOROMETHANE	mg/kg	<0.00046	<0.00051	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.031	<0.036	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.028	<0.00059
	BROMOFORM	mg/kg	<0.00074	<0.00081	<0.0012	<0.00076	<0.00071	<0.00069	<0.0009	<0.039	<0.046	<0.00084	<0.00096	<0.00073	<0.00074	<0.00075	<0.00087	<0.00066	<0.035	<0.00094
	BROMOMETHANE	mg/kg	<0.00085	<0.00094	<0.0014	<0.00088	<0.00082	<0.00079	<0.001	<0.045	<0.053	<0.00097	<0.0011	<0.00084	<0.00085	<0.00087	<0.001	<0.00076	<0.041	<0.0011
	CARBON DISULFIDE	mg/kg	<0.00089	<0.00099	<0.0015	<0.00092	<0.00086	0.002	<0.0011	<0.056	<0.067	0.0011	<0.0012	<0.00088	<0.00089	<0.00091	<0.0011	<0.0008	<0.052	0.0031
	CARBON TETRACHLORIDE	mg/kg	<0.00046	<0.00051	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.028	<0.033	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.025	<0.00059
	CHLOROBENZENE	mg/kg	<0.00048	<0.00053	<0.0008	0.0017	0.0049	0.016	0.0021	0.032	56	0.0029	<0.00062	<0.00047	<0.00048	0.005	<0.00057	0.017	15	0.056
	CHLOROETHANE	mg/kg	<0.0014	<0.0015	<0.0023	<0.0014	<0.0013	<0.0013	<0.0017	<0.045	<0.053	<0.0016	<0.0018	<0.0014	<0.0014	<0.0014	<0.0016	<0.0012	<0.041	<0.0018
	CHLOROFORM	mg/kg	<0.00046	<0.00051	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.044	<0.052	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.04	<0.00059
	CHLOROMETHANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.045	<0.0012
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00076	<0.00085	<0.0013	<0.00079	<0.00074	<0.00072	<0.00094	<0.048	<0.056	<0.00087	<0.00099	<0.00075	<0.00076	<0.00078	<0.00091	<0.00069	<0.044	<0.00098
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00041	<0.00045	<0.00068	<0.00042	<0.00039	<0.00038	<0.0005	<0.036	<0.042	<0.00046	<0.00053	<0.0004	<0.0004	<0.00041	<0.00048	<0.00036	<0.033	<0.00052
	DIBROMOCHLOROMETHANE	mg/kg	<0.00064	<0.00071	<0.0011	<0.00067	<0.00062	<0.0006	<0.00079	<0.027	<0.032	<0.00074	<0.00084	<0.00064	<0.00064	<0.00066	<0.00076	<0.00058	<0.024	<0.00082
	DIBROMOMETHANE	mg/kg	<0.00083	<0.00092	<0.0014	<0.00086	<0.0008	<0.00078	<0.001	<0.042	<0.049	<0.00095	<0.0011	<0.00082	<0.00083	<0.00085	<0.00098	<0.00075	<0.038	<0.0011
	DICHLORODIFLUOROMETHANE	mg/kg	<0.0014	<0.0015	<0.0023	<0.0014	<0.0013	<0.0013	<0.0017	<0.06	<0.072	<0.0016	<0.0018	<0.0014	<0.0014	<0.0014	<0.0016	<0.0012	<0.055	<0.0018
	DIMETHYL DISULFIDE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.05	0.27	0.0088	<0.0012	<0.00091	0.0022	0.0095	<0.0011	<0.00083	13	0.025
	ETHYLBENZENE	mg/kg	0.00095	0.00069	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.027	<0.032	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.024	<0.00059
	HEXACHLOROBUTADIENE	mg/kg	<0.00074	<0.00081	<0.0012	<0.00076	<0.00071	<0.00069	<0.0009	<0.039	<0.046	<0.00084	<0.00096	<0.00073	<0.00074	<0.00075	<0.00087	<0.00066	<0.035	<0.00094
	ISOPROPYLBENZENE	mg/kg	<0.0005	<0.00055	<0.00083	<0.00051	<0.00048	<0.00047	<0.00061	<0.035	<0.041	<0.00057	<0.00065	<0.00049	<0.0005	<0.00051	<0.00059	<0.00045	<0.032	<0.00064
	M,P-XYLENE	mg/kg	0.0028	0.0017	<0.0012	<0.00076	<0.00071	<0.00069	<0.0009	<0.053	<0.062	<0.00084	<0.00096	<0.00073	<0.00074	<0.00075	<0.00087	<0.00066	<0.048	<0.00094
	METHYLENE CHLORIDE	mg/kg	<0.006	<0.0066	<0.01	<0.0062	<0.0058	<0.0056	<0.0073	<0.43	<0.5	<0.0068	<0.0078	<0.0059	<0.006	<0.0061	<0.0071	<0.0054	<0.39	<0.0077
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	<0.00089	<0.00086	<0.0011	<0.061	<0.073	<0.0011	<0.0012	<0.00091	<0.00092	<0.00094	<0.0011	<0.00083	<0.056	<0.0012
	NAPHTHALENE	mg/kg	<0.001	<0.0011	<0.0017	<0.001	<0.00098	<0.00095	<0.0012	<0.08	<0.095	<0.0012	<0.0013	<0.001	<0.001	<0.001	<0.0012	<0.00091	<0.073	<0.0013
	N-BUTYLBENZENE	mg/kg	<0.00066	<0.00073	<0.0011	<0.00068	<0.00064	<0.00062	<0.00081	<0.034	<0.04	<0.00076	<0.00086	<0.00065	<0.00066	<0.00068	<0.00079	<0.0006	<0.031	<0.00085
	N-HEPTANE	mg/kg	<0.00092	<0.001	<0.0015	<0.00095	0.0011	0.0042	<0.0011	<0.05	<0.059	<0.0011	<0.0012	<0.00091	<0.00092	0.0063	<0.0011	<0.00083	0.56	0.0042
	NONANAL	mg/kg	<0.0036	<0.004	<0.006	<0.0037	<0.0035	<0.0034	<0.0044	<0.39	<0.46	<0.0041	<0.0047	<0.0035	<0.0036	<0.0037	<0.0043	0.0089	<0.35	<0.0046
	N-PROPYLBENZENE	mg/kg	<0.00056	<0.00062	<0.00094	<0.00058	<0.00054	<0.00053	<0.00069	<0.036	<0.042	<0.00064	<0.00073	<0.00055	<0.00056	<0.00057	<0.00067	<0.00051	<0.033	<0.00072
	O-XYLENE	mg/kg	0.0011	0.00077	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.028	<0.033	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.025	<0.00059
	P-ISOPROPYL TOLUENE	mg/kg	<0.00066	<0.00073	<0.0011	<0.00068	<0.00064	<0.00062	<0.00081	<0.048	<0.056	<0.00076	<0.00086	<0.00065	<0.00066	<0.00068	<0.00079	<0.0006	<0.044	<0.00085
	SEC-BUTYLBENZENE	mg/kg	<0.00062	<0.00068	<0.001	<0.00064	<0.0006	<0.00058	<0.00076	<0.031	<0.036	<0.00071	<0.0008	<0.00061	<0.00062	<0.00063	<0.00073	<0.00056	<0.028	<0.00079
	STYRENE	mg/kg	<0.00053	<0.00059	<0.00089	<0.00055	<0.00052	<0.0005	<0.00065	<0.03	<0.035	<0.00061	<0.00069	<0.00053	<0.00053	<0.00055	<0.00063	<0.00048	<0.027	<0.00068
	TENTATIVE IDENTIFIED COMPOUND	mg/kg																		
	TERT- BUTYLBENZENE	mg/kg	<0.00057	<0.00063	<0.00095	<0.00059	<0.00055	<0.00053	<0.0007	<0.027	<0.032	<0.00065	<0.00074	<0.00056	<0.00057	<0.00058	<0.00068	<0.00051	<0.024	<0.00073
	TETRACHLOROETHENE	mg/kg	<0.00045	<0.0005	<0.00075	<0.00047	<0.00044	<0.00042	<0.00055	<0.044	<0.052	<0.00052	<0.00059	<0.00045	<0.00045	<0.00046	<0.00053	<0.00041	0.16	<0.00058
	TOLUENE	mg/kg	0.0031	0.0024	0.0022	0.00049	0.00074	0.0015	<0.00056	0.061	<0.039	<0.00053	0.00071	<0.00045	<0.00046	0.00074	<0.00055	0.00047	0.81	0.0025
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00064	<0.00071	<0.0011	<0.00067	<0.00062	<0.0006	<0.00079	<0.05	<0.059	<0.00074	<0.00084	<0.00064	<0.00064	<0.00066	<0.00076	<0.00058	<0.045	<0.00082
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00056	<0.00062	<0.00094	<0.00058	<0.00054	<0.00053	<0.00069	<0.035	<0.041	<0.00064	<0.00073	<0.00055	<0.00056	<0.00057	<0.00067	<0.00051	<0.032	<0.00072
	TRICHLOROETHENE	mg/kg	<0.00046	<0.00051	<0.00077	<0.00048	<0.00045	<0.00043	<0.00056	<0.038	<0.045	<0.00053	<0.0006	<0.00045	<0.00046	<0.00047	<0.00055	<0.00041	<0.034	<0.00059
	TRICHLOROFLUOROMETHANE	mg/kg	<0.0005	<0.00055	<0.00083	<0.00051	<0.00048	<0.00047	<0.00061	<0.057	<0.068	<0.00057	<0.00065	<0.00049	<0.0005	<0.00051	<0.00059	<0.00045	<0.053	<0.00064
	VINYL CHLORIDE	mg/kg	<0.00084	<0.00093	<0.0014	<0.00087	<0.00081	<0.00078	<0.001	<0.064	<0.076	<0.00096	<0.0011	<0.00083	<0.00084	<0.00086	<0.00099	<0.00075	<0.059	<0.0011

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-138 SB-EC-138-0.5 0-0.5 5/18/2013	SB-EC-138 SB-EC-138-5.0 4.5-5 5/18/2013	SB-EC-138 SB-EC-138-10.0 9.5-10 5/18/2013	SB-EC-138 SB-EC-138-20.0 19.5-20 5/18/2013	SB-EC-139 SB-EC-139-0.5 0-0.5 5/18/2013	SB-EC-139 SB-EC-139-5.0 4.5-5 5/18/2013	SB-EC-139 SB-EC-139-10.0 9.5-10 5/18/2013	SB-EC-139 SB-EC-139-20.0 19.5-20 5/18/2013
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	mg/kg								
	CHLOROACETALDEHYDE	mg/kg								
	FORMALDEHYDE	mg/kg								
ASBESTOS [EPA 540-R-97-028]	LONG AMPHIBOLE PROTOCOL STRUCTURES	COUNT	<0							
	LONG ASBESTOS PROTOCOL STRUCTURES	COUNT	<0							
	LONG CHRYSOTILE PROTOCOL STRUCTURES	COUNT	<0							
	SHORT AMPHIBOLE STRUCTURES	COUNT	<0							
	SHORT ASBESTOS STRUCTURES	COUNT	<0							
	SHORT CHRYSOTILE STRUCTURES	COUNT	<0							
	TOTAL AMPHIBOLE PROTOCOL STRUCTURES	COUNT	<0							
	TOTAL ASBESTOS PROTOCOL STRUCTURES	COUNT	<0							
	TOTAL CHRYSOTILE PROTOCOL STRUCTURES	COUNT	<0							
DIOX [EPA 8290]	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	1234678-HEPTACHLORINATED DIBENZOFURAN	ng/kg								
	1234789-HEPTACHLORINATED DIBENZOFURAN	ng/kg								
	123478-HEXACHLORINATED DIBENZOFURAN	ng/kg								
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	123678-HEXACHLORINATED DIBENZOFURAN	ng/kg								
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	123789-HEXACHLORINATED DIBENZOFURAN	ng/kg								
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	12378-PENTACHLORINATED DIBENZOFURAN	ng/kg								
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	2,3,7,8-TCDD	ng/kg								
	TOXIC EQUIVALENT QUOTIENT (TEQ)	ng/kg								
	234678-HEXACHLORINATED DIBENZOFURAN	ng/kg								
	23478-PENTACHLORINATED DIBENZOFURAN	ng/kg								
	2378-TETRACHLORINATED DIBENZOFURAN	ng/kg								
	HEPTACHLORINATED DIBENZOFURAN	ng/kg								
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	HEXACHLORINATED DIBENZOFURAN	ng/kg								
	HEXACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	OCTACHLORINATED DIBENZOFURAN	ng/kg								
	OCTACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	PENTACHLORINATED DIBENZOFURAN	ng/kg								
	PENTACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
	TETRACHLORINATED DIBENZOFURAN	ng/kg								
	TETRACHLORINATED DIBENZO-P-DIOXIN	ng/kg								
GEOPHYSICAL	Cation-Exchange Capacity	meq/100g								
	Fraction organic Carbon	g/g								
	Percent Moisture	%								
	PH	pH Units								
	TOTAL ORGANIC CARBON	mg/kg								
HYDROCARB/ALC [EPA 8015B]	DRO (C8-C24)	mg/kg								
	EFH (C8 - C40)	mg/kg								
	ETHANOL	mg/kg								
	METHANOL	mg/kg								
	ORO (C25-C40)	mg/kg								
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/kg								
INORG_GC [EPA 9060M, 300.0M, 9014, 350.3M, 9056, 365.3M, 9045C]	AMMONIA (AS N)	mg/kg								
	CHLORIDE	mg/kg								
	CYANIDE	mg/kg								
	FLUORIDE	mg/kg								
	IODIDE	mg/kg								
	NITRATE (AS N)	mg/kg								
	PH	pH Units								
	PHOSPHATE	mg/kg								
	PHOSPHORUS, TOTAL (AS P)	mg/kg								
	SULFATE	mg/kg								
	TOTAL CARBON	mg/kg								
	TOTAL INORGANIC CARBON	mg/kg								
	TOTAL ORGANIC CARBON	mg/Kg								

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
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METALS [EPA 6020, 6010B, 7471A, 7199]	ALUMINUM	mg/kg								
	ANTIMONY	mg/kg								
	ARSENIC	mg/kg								
	BARIUM	mg/kg								
	BERYLLIUM	mg/kg								
	BORON	mg/kg								
	CADMIUM	mg/kg								
	CALCIUM	mg/kg								
	CHROMIUM	mg/kg								
	COBALT	mg/kg								
	COPPER	mg/kg								
	HEXAVALENT CHROMIUM	mg/kg								
	IRON	mg/kg								
	LEAD	mg/kg								
	MAGNESIUM	mg/kg								
	MANGANESE	mg/kg								
	MERCURY	mg/kg								
	MOLYBDENUM	mg/kg								
	NICKEL	mg/kg								
	PHOSPHORUS (WHITE)	mg/kg								
	PHOSPHORUS, TOTAL (AS P)	mg/kg								
	POTASSIUM	mg/kg								
	Potassium	mg/kg								
	SELENIUM	mg/kg								
	SILVER	mg/kg								
	SODIUM	mg/kg								
	THALLIUM	mg/kg								
	TIN	mg/kg								
	TITANIUM	mg/kg								
	URANIUM	mg/kg								
	VANADIUM	mg/kg								
	ZINC	mg/kg								
OC PEST [EPA 608/8080, 8081A]	2,4'-DDD	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	2,4'-DDE	mg/kg	0.0089	0.081	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	2,4'-DDT	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	4,4'-DDD	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	4,4'-DDE	mg/kg	0.014	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	4,4'-DDT	mg/kg	0.0078	0.77	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ALDRIN	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ALPHA-BHC	mg/kg	0.086	11	0.0043	0.0019	13	380	0.99	0.086
	BETA-BHC	mg/kg	6	2.3	0.0056	<0.0016	6.1	14	0.35	0.0037
	CHLORDANE	mg/kg	<0.02	<0.15	<0.021	<0.01	<5	<0.21	<0.21	<0.011
	DELTA-BHC	mg/kg	0.0067	0.027	<0.0031	<0.0016	<0.76	0.23	<0.031	0.026
	DIELDRIN	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ENDOSULFAN I	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ENDOSULFAN II	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ENDOSULFAN SULFATE	mg/kg	<0.004	<0.03	<0.0042	<0.0021	<1	<0.041	<0.042	<0.0021
	ENDRIN	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ENDRIN ALDEHYDE	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	ENDRIN KETONE	mg/kg	<0.004	<0.03	<0.0042	<0.0021	<1	<0.041	<0.042	<0.0021
	GAMMA-BHC (LINDANE)	mg/kg	0.004	0.22	<0.0031	<0.0016	<0.76	5.2	0.23	0.11
	HEPTACHLOR	mg/kg	<0.004	<0.03	<0.0042	<0.0021	<1	<0.041	<0.042	<0.0021
	HEPTACHLOR EPOXIDE	mg/kg	<0.004	<0.03	<0.0042	<0.0021	<1	<0.041	<0.042	<0.0021
	METHOXYCHLOR	mg/kg	<0.003	<0.022	<0.0031	<0.0016	<0.76	<0.031	<0.031	<0.0016
	TOXAPHENE	mg/kg	<0.1	<0.75	<0.1	<0.052	<25	<1	<1	<0.053

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-138 SB-EC-138-0.5 0-0.5 5/18/2013	SB-EC-138 SB-EC-138-5.0 4.5-5 5/18/2013	SB-EC-138 SB-EC-138-10.0 9.5-10 5/18/2013	SB-EC-138 SB-EC-138-20.0 19.5-20 5/18/2013	SB-EC-139 SB-EC-139-0.5 0-0.5 5/18/2013	SB-EC-139 SB-EC-139-5.0 4.5-5 5/18/2013	SB-EC-139 SB-EC-139-10.0 9.5-10 5/18/2013	SB-EC-139 SB-EC-139-20.0 19.5-20 5/18/2013
OP PEST	AZINPHOS-METHYL	mg/kg								
[EPA 8141A]	BOLSTAR	mg/kg								
	CARBOPHENOTHION (TRITHION)	mg/kg								
	CHLORPYRIFOS	mg/kg								
	COUMAPHOS	mg/kg								
	DEMETON	mg/kg								
	DEMETON-O	mg/kg								
	DIAZINON	mg/kg								
	DICHLORVOS	mg/kg								
	DIMETHOATE	mg/kg								
	DISULFOTON	mg/kg								
	EPN	mg/kg								
	ETHION	mg/kg								
	ETHOPROP	mg/kg								
	ETHYL PARATHION	mg/kg								
	FAMPHUR	mg/kg								
	FENSULFOTHION	mg/kg								
	FENTHION	mg/kg								
	MALATHION	mg/kg								
	MERPHOS	mg/kg								
	METHYL CARBOPHENOTHION	mg/kg								
	METHYL PARATHION	mg/kg								
	MEVINPHOS	mg/kg								
	NALED	mg/kg								
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	mg/kg								
	PHORATE	mg/kg								
	PHOSMET	mg/kg								
	RONNEL	mg/kg								
	STIROPHOS	mg/kg								
	SULFOTEPP	mg/kg								
	TETRACHLORVINPHOS	mg/kg								
	THIONAZIN	mg/kg								
	TOKUTHION	mg/kg								
	TRICHLORNATE	mg/kg								
ORGACIDS	4-CHLOROBENZENESULFONIC ACID	mg/Kg	0.13	0.66	<0.015	0.13	17	<0.015	<0.015	<0.015
[HPLC]	BENZENESULFONIC ACID	mg/Kg								
	DIETHYL PHOSPHORODITHIOIC ACID	mg/Kg								
	DIMETHYL PHOSPHORODITHIOIC ACID	mg/Kg								
	PHTHALIC ACID	mg/Kg								
PCB	AROCLOR-1016	mg/kg								
[EPA 8082]	AROCLOR-1221	mg/kg								
	AROCLOR-1232	mg/kg								
	AROCLOR-1242	mg/kg								
	AROCLOR-1248	mg/kg								
	AROCLOR-1254	mg/kg								
	AROCLOR-1260	mg/kg								
SVOC	1,1'-SULFONYBIS BENZENE	mg/kg								
[EPA 8270C/M]	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	mg/kg								
	1,2,4,5-TETRACHLOROBENZENE	mg/kg								
	1,2,4-TRICHLOROBENZENE	mg/kg								
	1,2-DICHLOROBENZENE	mg/kg								
	1,3-DICHLOROBENZENE	mg/kg								
	1,4-DICHLOROBENZENE	mg/kg								
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	mg/kg								
	2,2'-/4,4'-DICHLOROBENZIL	mg/kg								

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SVOC	2,4,5-TRICHLOROPHENOL	mg/kg								
[EPA 8270C/M]	2,4,6-TRICHLOROPHENOL	mg/kg								
	2,4-DICHLOROPHENOL	mg/kg								
	2,4-DIMETHYLPHENOL	mg/kg								
	2,4-DINITROPHENOL	mg/kg								
	2,4-DINITROTOLUENE	mg/kg								
	2,6-DINITROTOLUENE	mg/kg								
	2-CHLORONAPHTHALENE	mg/kg								
	2-CHLOROPHENOL	mg/kg								
	2-ETHYLHEXYL CHLOROFORMATE	mg/kg								
	2-METHYLNAPHTHALENE	mg/kg								
	2-METHYLPHENOL	mg/kg								
	2-NITROANILINE	mg/kg								
	2-NITROPHENOL	mg/kg								
	3,3'-DICHLOROBENZIDINE	mg/kg								
	3-HEXENE-2,5-DIONE	mg/kg								
	3-NITROANILINE	mg/kg								
	4,6-DINITRO-2-METHYLPHENOL	mg/kg								
	4-BROMOPHENYL PHENYL ETHER	mg/kg								
	4-CHLORO-3-METHYLPHENOL	mg/kg								
	4-CHLOROANILINE	mg/kg								
	4-CHLOROBENZENETHIOL	mg/kg								
	4-CHLOROPHENYL METHYL SULFIDE	mg/kg								
	4-CHLOROPHENYL PHENYL ETHER	mg/kg								
	4-METHYLPHENOL	mg/kg								
	4-NITROANILINE	mg/kg								
	4-NITROPHENOL	mg/kg								
	ACENAPHTHENE	mg/kg								
	ACENAPHTHYLENE	mg/kg								
	ANILINE	mg/kg								
	ANTHRACENE	mg/kg								
	AZOBENZENE	mg/kg								
	BENZO(A)ANTHRACENE	mg/kg								
	BENZO(A)PYRENE	mg/kg								
	BENZO(B)FLUORANTHENE	mg/kg								
	BENZO(GHI)PERYLENE	mg/kg								
	BENZO(K)FLUORANTHENE	mg/kg								
	BENZOIC ACID	mg/kg								
	BENZOPHENONE	mg/kg								
	BENZYL ALCOHOL	mg/kg								
	BIS(2-CHLOROETHOXY)METHANE	mg/kg								
	BIS(2-CHLOROETHYL)ETHER	mg/kg								
	BIS(2-CHLOROISOPROPYL)ETHER	mg/kg								
	BIS(2-ETHYLHEXYL)PHTHALATE	mg/kg								
	BIS(4-CHLOROPHENYL)DISULFIDE	mg/kg								
	BIS-(4-CHLOROPHENYL)METHANONE	mg/kg								
	BUTYL BENZYL PHTHALATE	mg/kg								
	CHLORAL	mg/kg								
	CHRYSENE	mg/kg								
	DIBENZO(A,H)ANTHRACENE	mg/kg								
	DIBENZOFURAN	mg/kg								
	DICHLOROACETALDEHYDE	mg/kg								
	DIETHYL PHOSPHORODITHIOIC ACID	mg/kg								
	DIETHYL PHTHALATE	mg/kg								
	DIMETHYL PHTHALATE	mg/kg								
	DIMETHYL SULFOXIDE	mg/kg								
	DI-N-BUTYL PHTHALATE	mg/kg								
	DI-N-OCTYL PHTHALATE	mg/kg								

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SVOC [EPA 8270C/M]	FLUORANTHENE	mg/kg								
	FLUORENE	mg/kg								
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	mg/kg								
	HEXACHLOROBENZENE	mg/kg								
	HEXACHLOROBUTADIENE	mg/kg								
	HEXACHLOROCYCLOPENTADIENE	mg/kg								
	HEXACHLOROETHANE	mg/kg								
	INDENO(1,2,3-CD)PYRENE	mg/kg								
	ISOPHORONE	mg/kg								
	NAPHTHALENE	mg/kg								
	N-HYDROXYMETHYLPHTHALIMIDE	mg/kg								
	NITROBENZENE	mg/kg								
	N-NITROSODIMETHYLAMINE	mg/kg								
	N-NITROSO-DI-N-PROPYLAMINE	mg/kg								
	N-NITROSODIPHENYLAMINE	mg/kg								
	OCTACHLOROSTYRENE	mg/kg								
	P-CHLOROPHENYL SULFONE	mg/kg								
	PENTACHLOROBENZENE	mg/kg								
	PENTACHLOROPHENOL	mg/kg								
	PHENANTHRENE	mg/kg								
	PHENOL	mg/kg								
	PHENYL DISULFIDE	mg/kg								
	PHENYL SULFIDE	mg/kg								
	PYRENE	mg/kg								
	PYRIDINE	mg/kg								
	THIOPHENOL	mg/kg								
VOC [EPA 8260B]	1,1,1,2-TETRACHLOROETHANE	mg/kg	<0.00058	<0.00055	<0.00047	<0.00053	<0.00052	<0.00047	<0.00049	<0.0005
	1,1,1-TRICHLOROETHANE	mg/kg	<0.00072	<0.00068	<0.00057	<0.00065	<0.00064	<0.00057	<0.00061	<0.00061
	1,1,2,2-TETRACHLOROETHANE	mg/kg	<0.00088	<0.00083	<0.0007	<0.00079	<0.00079	<0.00071	<0.00075	<0.00075
	1,1,2-TRICHLOROETHANE	mg/kg	<0.00089	<0.00084	<0.00071	<0.0008	<0.0008	<0.00071	<0.00075	<0.00076
	1,1-DICHLOROETHANE	mg/kg	<0.00051	<0.00048	<0.00041	<0.00046	<0.00046	<0.00041	<0.00043	<0.00044
	1,1-DICHLOROETHENE	mg/kg	<0.00061	<0.00058	<0.00049	<0.00055	<0.00055	<0.00049	<0.00052	<0.00052
	1,1-DICHLOROPROPENE	mg/kg	<0.00041	<0.00039	<0.00033	<0.00037	<0.00037	<0.00033	<0.00035	<0.00035
	1,2,3-TRICHLOROBENZENE	mg/kg	<0.001	0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	1,2,3-TRICHLOROPROPANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	1,2,4-TRICHLOROBENZENE	mg/kg	0.0043	0.026	<0.00082	<0.00092	0.033	0.005	0.0027	<0.00087
	1,2,4-TRIMETHYLBENZENE	mg/kg	<0.0008	0.0035	0.0019	0.0016	0.0065	0.002	<0.00068	0.0015
	1,2-DIBROMO-3-CHLOROPROPANE	mg/kg	<0.0015	<0.0015	<0.0012	<0.0014	<0.0014	<0.0012	<0.0013	<0.0013
	1,2-DIBROMOETHANE	mg/kg	<0.00082	<0.00077	<0.00065	<0.00074	<0.00073	<0.00066	<0.00069	<0.0007
	1,2-DICHLOROBENZENE	mg/kg	<0.00097	0.0089	<0.00078	<0.00088	<0.00087	<0.00078	<0.00082	<0.00083
	1,2-DICHLOROETHANE	mg/kg	<0.00082	<0.00077	<0.00065	<0.00074	<0.00073	<0.00066	<0.00069	<0.0007
	1,2-DICHLOROPROPANE	mg/kg	<0.00082	<0.00077	<0.00065	<0.00074	<0.00073	<0.00066	<0.00069	<0.0007
	1,3,5-TRICHLOROBENZENE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	1,3,5-TRIMETHYLBENZENE	mg/kg	<0.00065	0.00062	<0.00052	<0.00058	0.0014	<0.00052	<0.00055	<0.00055
	1,3-DICHLOROBENZENE	mg/kg	<0.00086	0.0017	<0.00069	<0.00077	<0.00077	<0.00069	<0.00073	<0.00073
	1,3-DICHLOROPROPANE	mg/kg	<0.00065	<0.00061	<0.00052	<0.00058	<0.00058	<0.00052	<0.00055	<0.00055
	1,4-DICHLOROBENZENE	mg/kg	<0.00096	0.018	<0.00077	<0.00087	<0.00086	<0.00077	<0.00082	<0.00082
	2,2,3-TRIMETHYLBUTANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	2,2-DICHLOROPROPANE	mg/kg	<0.00061	<0.00058	<0.00049	<0.00055	<0.00055	<0.00049	<0.00052	<0.00052
	2,2-DIMETHYLPENTANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	2,3-DIMETHYLPENTANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	2,4-DIMETHYLPENTANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	2-BUTANONE	mg/kg	0.011	<0.0058	0.0057	<0.0055	0.021	0.0055	<0.0052	<0.0052
	2-CHLOROTOLUENE	mg/kg	<0.00089	<0.00084	<0.00071	<0.0008	<0.0008	<0.00071	<0.00075	<0.00076
	2-HEXANONE	mg/kg	<0.0093	<0.0088	<0.0074	<0.0084	<0.0084	<0.0075	<0.0079	<0.0079
	2-METHYLHEXANE	mg/kg	<0.001	<0.00097	0.0021	<0.00092	0.0014	<0.00082	<0.00087	<0.00087
	3,3-DIMETHYLPENTANE	mg/kg	<0.002	<0.0019	<0.0016	<0.0018	<0.0018	<0.0016	<0.0017	<0.0017
	3-ETHYLPENTANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: ≥ BCL[1]
Green: ≥ 1/10*BCL

Group and Method	Analyte	Units	SB-EC-138 SB-EC-138-0.5 0-0.5 5/18/2013	SB-EC-138 SB-EC-138-5.0 4.5-5 5/18/2013	SB-EC-138 SB-EC-138-10.0 9.5-10 5/18/2013	SB-EC-138 SB-EC-138-20.0 19.5-20 5/18/2013	SB-EC-139 SB-EC-139-0.5 0-0.5 5/18/2013	SB-EC-139 SB-EC-139-5.0 4.5-5 5/18/2013	SB-EC-139 SB-EC-139-10.0 9.5-10 5/18/2013	SB-EC-139 SB-EC-139-20.0 19.5-20 5/18/2013
VOC [EPA 8260B]	3-METHYLHEXANE	mg/kg	<0.001	<0.00097	0.0021	<0.00092	0.0012	<0.00082	<0.00087	<0.00087
	4-CHLOROTOLUENE	mg/kg	<0.00076	<0.00072	<0.00061	<0.00068	<0.00068	<0.00061	<0.00064	<0.00064
	4-METHYL-2-PENTANONE	mg/kg	<0.0046	<0.0044	<0.0037	<0.0041	<0.0041	<0.0037	<0.0039	<0.0039
	ACETONE	mg/kg	0.13	0.039	0.059	0.026	0.11	0.035	0.058	0.02
	BENZENE	mg/kg	0.00072	0.0014	0.001	0.0045	0.0018	0.00061	<0.00043	0.00058
	BROMOBENZENE	mg/kg	<0.00086	<0.00081	<0.00069	<0.00077	<0.00077	<0.00069	<0.00073	<0.00073
	BROMOCHLOROMETHANE	mg/kg	<0.00092	<0.00087	<0.00074	<0.00083	<0.00083	<0.00074	<0.00078	<0.00078
	BROMODICHLOROMETHANE	mg/kg	<0.00051	<0.00048	<0.00041	<0.00046	<0.00046	<0.00041	<0.00043	<0.00044
	BROMOFORM	mg/kg	<0.00087	<0.00077	<0.00068	<0.00069	<0.00073	<0.00066	<0.00069	<0.00067
	BROMOMETHANE	mg/kg	<0.00094	<0.00089	<0.00075	<0.00085	<0.00084	<0.00076	<0.0008	<0.0008
	CARBON DISULFIDE	mg/kg	<0.00099	<0.00094	<0.00079	<0.00089	<0.00089	<0.0008	<0.00084	<0.00084
	CARBON TETRACHLORIDE	mg/kg	<0.00051	<0.00048	<0.00041	<0.00046	<0.00046	<0.00041	<0.00043	<0.00044
	CHLOROBENZENE	mg/kg	0.0014	0.029	0.0099	0.0019	0.00091	0.0005	<0.00045	<0.00045
	CHLOROETHANE	mg/kg	<0.0015	<0.0015	<0.0012	<0.0014	<0.0014	<0.0012	<0.0013	<0.0013
	CHLOROFORM	mg/kg	<0.00051	<0.00048	<0.00041	<0.00046	<0.00046	<0.00041	<0.00043	<0.00044
	CHLOROMETHANE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	0.0013	<0.00082	<0.00087	<0.00087
	CIS-1,2-DICHLOROETHENE	mg/kg	<0.00085	<0.0008	<0.00068	<0.00077	<0.00076	<0.00068	<0.00072	<0.00072
	CIS-1,3-DICHLOROPROPENE	mg/kg	<0.00045	<0.00043	<0.00036	<0.00041	<0.0004	<0.00036	<0.00038	<0.00038
	DIBROMOCHLOROMETHANE	mg/kg	<0.00072	<0.00068	<0.00057	<0.00065	<0.00064	<0.00057	<0.00061	<0.00061
	DIBROMOMETHANE	mg/kg	<0.00092	<0.00087	<0.00074	<0.00083	<0.00083	<0.00074	<0.00078	<0.00078
	DICHLORODIFLUOROMETHANE	mg/kg	<0.0015	<0.0015	<0.0012	<0.0014	<0.0014	<0.0012	<0.0013	<0.0013
	DIMETHYL DISULFIDE	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	ETHYLBENZENE	mg/kg	<0.00051	0.0013	0.0014	0.00081	0.0025	0.001	<0.00043	0.001
	HEXACHLOROBUTADIENE	mg/kg	<0.00082	<0.00077	<0.00065	<0.00074	<0.00073	<0.00066	<0.00069	<0.0007
	ISOPROPYLBENZENE	mg/kg	<0.00055	<0.00052	<0.00044	<0.0005	<0.0005	<0.00044	<0.00047	<0.00047
	M,P-XYLENE	mg/kg	<0.00082	0.0052	0.0052	0.0026	0.0087	0.0037	0.0012	0.0035
	METHYLENE CHLORIDE	mg/kg	<0.0067	<0.0063	<0.0053	<0.006	<0.006	<0.0053	<0.0056	<0.0057
	METHYL-TERT-BUTYL ETHER	mg/kg	<0.001	<0.00097	<0.00082	<0.00092	<0.00092	<0.00082	<0.00087	<0.00087
	NAPHTHALENE	mg/kg	<0.0011	<0.0011	<0.0009	<0.001	<0.001	<0.0009	<0.00095	<0.00096
	N-BUTYLBENZENE	mg/kg	<0.00074	<0.0007	<0.00059	<0.00066	<0.00066	<0.00059	<0.00062	<0.00063
	N-HEPTANE	mg/kg	<0.001	<0.00097	0.0019	<0.00092	0.0015	<0.00082	<0.00087	<0.00087
	NONANAL	mg/kg	<0.004	<0.0038	<0.0032	<0.0036	<0.0035	<0.0031	<0.0037	<0.0034
	N-PROPYLBENZENE	mg/kg	<0.00062	0.00061	<0.0005	<0.00056	0.0011	<0.0005	<0.00053	<0.00053
	O-XYLENE	mg/kg	<0.00051	0.0018	0.0019	0.00099	0.004	0.0018	0.00045	0.0013
	P-ISOPROPYL TOLUENE	mg/kg	<0.00074	<0.0007	<0.00059	<0.00066	<0.00066	<0.00059	<0.00062	<0.00063
	SEC-BUTYLBENZENE	mg/kg	<0.00069	<0.00065	<0.00055	<0.00062	<0.00062	<0.00055	<0.00058	<0.00058
	STYRENE	mg/kg	<0.00059	<0.00056	<0.00047	<0.00053	<0.00053	<0.00048	<0.0005	<0.0005
	TENTATIVE IDENTIFIED COMPOUND	mg/kg								
	TERT- BUTYLBENZENE	mg/kg	<0.00064	<0.0006	<0.00051	<0.00057	<0.00057	<0.00051	<0.00054	<0.00054
	TETRACHLOROETHENE	mg/kg	<0.0005	<0.00047	<0.0004	<0.00045	0.00051	0.0007	0.00049	0.00088
	TOLUENE	mg/kg	0.00088	0.0029	0.0094	0.0029	0.0081	0.0039	0.0014	0.0039
	TRANS-1,2-DICHLOROETHENE	mg/kg	<0.00072	<0.00068	<0.00057	<0.00065	<0.00064	<0.00057	<0.00061	<0.00061
	TRANS-1,3-DICHLOROPROPENE	mg/kg	<0.00062	<0.00059	<0.0005	<0.00056	<0.00056	<0.0005	<0.00053	<0.00053
	TRICHLOROETHENE	mg/kg	<0.00051	<0.00048	<0.00041	<0.00046	<0.00046	<0.00041	<0.00043	<0.00044
	TRICHLOROFLUOROMETHANE	mg/kg	<0.00055	<0.00052	0.00064	<0.0005	<0.0005	<0.00044	<0.00047	<0.00047
	VINYL CHLORIDE	mg/kg	<0.00093	<0.00088	<0.00074	<0.00084	<0.00084	<0.00075	<0.00079	<0.00079

Table B-1. Summary of Laboratory Analytical Results for Soil Samples and Waste Materials
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Notes:

[1] Nevada Department of Environmental Protection (NDEP) Basic Comparison Level (BCL) for Outdoor Industrial/Commercial Worker (NDEP, August 2013)

Blue Highlight = Result exceeds the respective NDEP BCL for Industrial Outdoor Industrial/Commercial Worker

Green Highlight = Result exceeds one-tenth the respective NDEP BCL for Industrial Outdoor Industrial/Commercial Worker

INORG_GC = Inorganic / General Chemistry Parameters

DIOX = Dioxins and Furans

HYDROCARB/ALC = Hydrocarbons/Alcohols

OC PEST = Organochlorine Pesticides

OP PEST = Organophosporus Pesticides

ORGACIDS = Organic Acids

PCB = Polychlorinated Biphenyls

SVOC = Semi-Volatile Organic Compounds

VOC = Volatile Organic Compounds

< = Not detected at or above respective sample quantitation limit (SQL)

CAS = Chemical Abstracts Service (CAS) Registry number

mg/kg - Milligrams per kilogram

ng/kg - nanograms per kilogram

No. = Number

Freq. = Frequency

Min. = Minimum

Max. = Maximum

NDs = Non-detects

Detc. = Detections

J- = Estimated value. Data fell outside the QC limits and the reported value is an estimated quantity with a negative bias. QC exceedance was not sufficient to cause rejection of the data.

J+ = Estimated value. Data fell outside the QC limits and the reported value is an estimated quantity with a positive bias. QC exceedance was not sufficient to cause rejection of the data.

J = Estimated value. Data fell outside the QC limits and the reported value is an estimated quantity with an unknown bias. QC exceedance was not sufficient to cause rejection of the data.

UJ = Estimated value. Sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. Possible false negative results.

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[(1)]

Group and Method	Analyte	Units	CAS	Solubility	BCL[1]	No. Analyses	No. Detcs.	Freq. Detc.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL								
															Location ID	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
															Water Bearing Zone	Shallow	Shallow	Shallow	Middle	Middle	Middle	Middle
															Sample ID	EC-9-10202006	EC-9-0408	EC-9-1008	EC-14-20090310	EC-14-20091113	EC-14-20100503	EC-14 20110414
															Date	10/20/2006	4/21/2008	10/31/2008	3/10/2009	11/13/2009	5/3/2010	4/14/2011
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	ug/L	75-07-0	Miscible	2.21	1	1	100%	150	150	150	150	1	100%	150							
	CHLOROACETALDEHYDE	ug/L	107-20-0	Miscible	ne	1	1	100%	4.6	4.6	4.6	4.6	--	--	4.6J+							
	FORMALDEHYDE	ug/L	50-00-0	550000000	7300	1	1	100%	870	870	870	870	0	0%	870							
DIOX	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ug/l	35822-46-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	1234678-HEPTACHLORINATED DIBENZOFURAN	ug/l	67562-39-4	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	1234789-HEPTACHLORINATED DIBENZOFURAN	ug/l	55673-89-7	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	123478-HEXACHLORINATED DIBENZOFURAN	ug/l	70648-26-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	39227-28-6	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	123678-HEXACHLORINATED DIBENZOFURAN	ug/l	57117-44-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	57653-85-7	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	123789-HEXACHLORINATED DIBENZOFURAN	ug/l	72918-21-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	19408-74-3	na	1.08E-05	1	0	0%	--	--	--	--	0	0%				<0.000049				
	12378-PENTACHLORINATED DIBENZOFURAN	ug/l	57117-41-6	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ug/l	40321-76-4	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	2,3,7,8-TCDD	ug/l	1746-01-6	na	3.00E-05	1	0	0%	--	--	--	--	0	0%				<0.0000097				
	234678-HEXACHLORINATED DIBENZOFURAN	ug/l	60851-34-5	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	23478-PENTACHLORINATED DIBENZOFURAN	ug/l	57117-31-4	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	2378-TETRACHLORINATED DIBENZOFURAN	ug/l	51207-31-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.0000097				
	HEPTACHLORINATED DIBENZOFURAN	ug/l	38998-75-3	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ug/l	37871-00-4	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	HEXACHLORINATED DIBENZOFURAN	ug/l	55684-94-1	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	34465-46-8	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	OCTACHLORINATED DIBENZOFURAN	ug/l	39001-02-0	na	ne	1	0	0%	--	--	--	--	--	--				<0.000097				
	OCTACHLORINATED DIBENZO-P-DIOXIN	ug/l	3268-87-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.000097				
	PENTACHLORINATED DIBENZOFURAN	ug/l	30402-15-4	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	PENTACHLORINATED DIBENZO-P-DIOXIN	ug/l	36088-22-9	na	ne	1	0	0%	--	--	--	--	--	--				<0.000049				
	TETRACHLORINATED DIBENZOFURAN	ug/l	55722-27-5	na	ne	1	0	0%	--	--	--	--	--	--				<0.0000097				
	TETRACHLORINATED DIBENZO-P-DIOXIN	ug/l	41903-57-5	na	ne	1	0	0%	--	--	--	--	--	--				<0.0000097				
HYDROCARB/ALC [EPA 8015B/Mod]	DRO (C8-C24)	mg/l	PHCC8C24	na	ne	1	1	100%	18	18	18	18	--	--	18							
	EFH (C8 - C40)	mg/l	PHCC8C40	na	ne	1	1	100%	18	18	18	18	--	--	18							
	ETHANOL	ug/L	64-17-5	Miscible	208571	2	1	50%	1100000	1100000	1100000	1100000	1	50%	1.1e+006			<10000				
	METHANOL	ug/L	67-56-1	Miscible	18250	2	1	50%	4000000	4000000	4000000	4000000	1	50%	4e+006J-			<10000				
	ORO (C25-C40)	mg/l	PHCC25C40	na	ne	1	0	0%	--	--	--	--	--	--	<15							
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/l	GROC6C12	na	ne	1	1	100%	610	610	610	610	--	--	610J-							
INORG_GC	ALKALINITY AS CACO3	mg/L	10-09-3	na	ne	5	5	100%	110	1406	120	6500	--	--	6500				180	120J-TDS	110	
	ALKALINITY, CARBONATE (AS CACO3)	mg/L	ALKC	na	ne	5	0	0%	--	--	--	--	--	--					<2.0	<2.0	<2.0	
[EPA 150.1, 160.1,	ALKALINITY, HYDROXIDE AS CACO3	mg/L	ALKH	na	ne	5	0	0%	--	--	--	--	--	--					<2.0	<2.0	<2.0	
300.0, 310.1, 314.0,	ALKALINITY, TOTAL	mg/l	11-43-8	na	ne	2	2	100%	99	104.5	104.5	110	--	--				110				
335.2, 350.1, 350.3,	AMMONIA (AS N)	mg/l	7664-41-7	na	0.21	2	1	50%	41	41	41	41	1	50%	41							
365.3, 6850, 9014,	AMMONIA (AS NH3)	mg/L	NH3NH3	na	ne	2	1	50%	0.93	0.93	0.93	0.93	--	--						<0.60		
9056, 3005A, 9040B]	BICARBONATE	mg/l	71-52-3	na	ne	2	2	100%	140	4020	4020	7900	--	--	7900			140				
	BROMIDE	mg/L	24959-67-9	na	ne	3	3	100%	0.17	0.47	0.35	0.89	--	--						0.35		
[SM 2320B, 2540C,	CARBONATE AS CACO3	mg/l	3812-32-6	na	ne	2	0	0%	--	--	--	--	--	--	<1.2			<1.2				
4500, 5310B]	CATION/ANION BALANCE	%	Q901	na	ne	2	2	100%	4.1	5.29	5.29	6.48	--	--						4.1		
	CHLORIDE	mg/L	16887-00-6	na	ne	6	6	100%	180	2655	185	15000	--	--	15000				180	200J-TDS	180	
	CYANIDE	mg/l	57-12-5	na	0.20	2	0	0%	--	--	--	--	0	0%	<0.025			<0.025				
	FILTRATION	N/A	Filtration	na	ne	0	0	#DIV/0!	--	--	--	--	--	--								
	FLUORIDE	mg/L	16984-48-8	na	4.00	5	5	100%	0.59	0.67	0.7	0.74	0	0%					0.74	0.70J-TDS	0.71	
	HYDROXIDE	mg/l	14280-30-9	na	ne	2	0	0%	--	--	--	--	--	--	<0.70			<0.7				
	IODIDE	ug/l	IODIDE	na	ne	1	1	100%	3600	3600	3600	3600	--	--	3600							
	NITRATE (AS N)	mg/L	14797-55-8	na	10	6	4	67%	0.45	1.445	1.415	2.5	0	0%	<11				2.5	2.1J-TDS	<0.11	
	NITRITE (AS N)	mg/L	14797-65-0	na	1.00	3	0	0%	--	--	--	--	0	0%						<0.50		
	ORTHOPHOSPHATE AS PO4	mg/L	ORTHOPO4	na	ne	2	1	50%	0.65	0.65	0.65	0.65	--	--						<0.50		
	PERCHLORATE	ug/L	14797-73-0	na	18	7	5	71%	0.14	1.454	0.39	5.2	0	0%				<4	<4.0	0.24	0.14	
	PH	pH units	pH	na	ne	7	7	100%	5.88	7.2485714	7.69	7.91	--	--	6.89			7.91	6.83	7.74	7.8J	
	PHOSPHATE		14265-44-2	na	ne	1	1	100%	1300	1300	1300	1300	--	--				1300				
	PHOSPHORUS, TOTAL (AS P)	mg/l	14596-37-3	na	ne	1	1	100%	2900	2900	2900	2900	--	--	2900							
	SULFATE	mg/L	14808-79-8	na	ne	6	6	100%	190	420	205	1500	--	--	1500				200	210J-TDS	200	
	TOTAL DISSOLVED SOLIDS	mg/L	10-33-3	na	ne	10	10	100%	720	11038	800	40000	--	--	40000	36000	29000	820	830	730J-TDS	780	
	TOTAL INORGANIC CARBON	mg/l	TOTIC	na	ne	1	1	100%	486	486	486	486	--	--	486							

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[(1)]

Group and Method	Analyte	Units	CAS	Solubility	BCL[1]	No. Analyses	No. Detcs.	Freq. Detc.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
														Location ID	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
														Water Bearing Zone	Shallow	Shallow	Shallow	Middle	Middle	Middle	Middle
														Sample ID	EC-9-10202006	EC-9-0408	EC-9-1008	EC-14-20090310	EC-14-20091113	EC-14-20100503	EC-14 20110414
														Date	10/20/2006	4/21/2008	10/31/2008	3/10/2009	11/13/2009	5/3/2010	4/14/2011
METALS	ALUMINUM	mg/l	7429-90-5	na	0.050	4	3	75%	0.02	0.3533333	0.4	0.64	2	50%	0.40			0.64			
	ANTIMONY	mg/L	7440-36-0	na	0.006	3	0	0%	--	--	--	--	0	0%	<0.02			<0.00041U	<0.00072U		
[EPA 6010B, 6020,	ARSENIC	ug/L	7440-38-2	na	10	10	10	100%	12	177.1	30.5	1000	10	100%	390	1000	180J-	12	28	45	33
7470A, 200.7, 7199]	BARIUM	mg/l	7440-39-3	na	2.00	9	9	100%	0.034	0.111	0.06	0.27	0	0%		0.27	0.12	0.038	0.23	0.17	0.06
	BERYLLIUM	mg/L	7440-41-7	na	0.0040	3	2	67%	0.00084	0.01092	0.01092	0.021	1	33%	0.021			<0.0005	0.00084		
	CADMIUM	mg/l	7440-43-9	na	0.005	10	6	60%	0.000055	0.0008055	0.00017	0.004	0	0%	0.004	<0.025	<0.002UJ	<0.001	0.00022	<0.0050	0.00012
	CALCIUM	mg/L	7440-70-2	na	ne	7	7	100%	39	159.42857	61	690	--	--	690			49	150	77J-TDS	50
	CHROMIUM	mg/l	7440-47-3	na	ne	10	9	90%	0.004	0.0351111	0.018	0.17	--	--	0.17	<0.025	0.03	0.004	0.029	0.028	0.018
	COBALT	mg/L	7440-48-4	na	0.011	3	3	100%	0.00055	0.0489167	0.0062	0.14	1	33%	0.14			0.00055	0.0062		
	COPPER	mg/L	7440-50-8	na	1.30	3	3	100%	0.0014	0.0654667	0.025	0.17	0	0%	0.17			0.0014	0.025J+		
	HEXAVALENT CHROMIUM	mg/l	18540-29-9	na	0.10	2	1	50%	0.004	0.004	0.004	0.004	0	0%	<0.0020			0.004			
	IRON	mg/l	7439-89-6	na	0.30	4	2	50%	0.84	9.42	9.42	18	2	50%	18			0.84			
	LEAD	mg/l	7439-92-1	na	0.015	10	7	70%	0.000093	0.028459	0.0022	0.18	1	10%	0.18	<0.025	<0.002	<0.001	0.0082	0.0070	0.0022
	MAGNESIUM	mg/L	7439-95-4	na	207	7	7	100%	18	149.57143	21	900	1	14%	900			21	39	27J-TDS	21
	MANGANESE	mg/l	7439-96-5	na	0.020	4	4	100%	0.0087	5.051175	0.098	20	3	75%	20			0.17			
	MERCURY	mg/L	7439-97-6	na	0.0020	10	1	10%	0.00067	0.00067	0.00067	0.00067	0	0%	0.00067J-	<0.0002	<0.00020	<0.0002	<0.0002	<0.00020	<0.00020
	MOLYBDENUM	mg/L	7439-98-7	na	0.18	1	1	100%	0.011	0.011	0.011	0.011	0	0%					0.011		
	NICKEL	mg/L	7440-02-0	na	0.73	3	3	100%	0.0011	0.1167	0.019	0.33	0	0%	0.33J-			0.0011J-	0.019		
	PHOSPHORUS, TOTAL (AS P)	mg/l	14596-37-3	na	ne	2	2	100%	0.24	1550.12	1550.12	3100	--	--	3100			0.24			
	POTASSIUM	mg/L	7440-09-7	na	ne	7	7	100%	7.1	18.757143	8.8	73	--	--	73			8.8	14	7.8	8.8
	SELENIUM	mg/l	7782-49-2	na	0.050	10	9	90%	0.00071	0.0113233	0.0021	0.074	1	10%	0.074	<0.05	0.012J-	0.0011	0.004	0.0048	0.00071
	SILVER	mg/l	7440-22-4	na	0.10	10	0	0%	--	--	--	--	0	0%	<0.01	<0.05	<0.002UJ	<0.001UJ	<0.00021U	<0.025	<0.005
	SODIUM	mg/L	7440-23-5	na	ne	7	7	100%	160	2007.1429	170	13000	--	--	13000			190	200	170J-TDS	170
	THALLIUM	mg/L	7440-28-0	na	0.0020	3	2	67%	0.00032	0.00256	0.00256	0.0048	1	33%	0.0048			<0.001	0.00032		
	TIN	mg/l	7440-31-5	na	22	2	0	0%	--	--	--	--	0	0%	<0.50			<0.1			
	TITANIUM	mg/l	7440-32-6	na	146	2	1	50%	0.04	0.04	0.04	0.04	0	0%	<0.025			0.04			
	URANIUM	mg/l	7440-61-1	na	0.030	7	7	100%	0.0024	0.0106714	0.0041	0.052	1	14%			0.052		0.0055	0.0043	0.0041
	VANADIUM	mg/L	7440-62-2	na	0.18	3	3	100%	0.0082	0.2460667	0.04	0.69	1	33%	0.69			0.0082	0.04		
	ZINC	mg/L	7440-66-6	na	11	3	3	100%	0.0062	0.3354	0.19	0.81	0	0%	0.81			0.0062	0.19		
OC PEST	2,4'-DDD	ug/L	53-19-0	na	ne	10	0	0%	--	--	--	--	--	--	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
[EPA 3510C/8081A]	2,4'-DDE	ug/L	3424-82-6	na	ne	10	0	0%	--	--	--	--	--	--	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	2,4'-DDT	ug/L	789-02-6	na	ne	9	0	0%	--	--	--	--	--	--	<1.0	<0.094	<0.095		<0.10	<0.094	<0.094
	4,4'-DDD	ug/L	72-54-8	160	0.28	10	1	10%	0.015	0.015	0.015	0.015	0	0%	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	4,4'-DDE	ug/L	72-55-9	40	0.20	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	4,4'-DDT	ug/L	50-29-3	5.5	0.20	10	2	20%	0.022	390.011	390.011	780	1	10%	780	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	ALDRIN	ug/L	309-00-2	na	0.0040	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.0050	<0.0047	<0.0047
	ALPHA-BHC	ug/L	319-84-6	1630	11	10	6	60%	0.014	0.6833333	0.0485	3.2	0	0%	3.2	0.77J+	<0.095	0.073	<0.0050	0.014	<0.0047
	BETA-BHC	ug/L	319-85-7	240	2.19	10	7	70%	0.0051	0.2617571	0.013	1.7	0	0%	1.7	<0.47	<0.095	<0.094	0.013	0.0091	0.064
	CHLORDANE	ug/L	57-74-9	na	2.00	10	0	0%	--	--	--	--	0	0%	<10	<0.94	<0.95	<0.94	<0.10	<0.094	<0.094UJ
	DELTA-BHC	ug/L	319-86-8	31400	11	10	2	20%	0.0059	0.01845	0.01845	0.031	0	0%	<2.0	<0.19	<0.19	0.031	<0.20	<0.19	<0.19
	DIELDRIN	ug/L	60-57-1	195	0.0042	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.0050	<0.0047	<0.0047
	ENDOSULFAN I	ug/L	959-98-8	na	ne	10	1	10%	0.3	0.3	0.3	0.3	--	--	<1.0	<0.094	0.3	<0.094	<0.10	<0.094	<0.094
	ENDOSULFAN II	ug/L	33213-65-9	na	ne	10	0	0%	--	--	--	--	--	--	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	ENDOSULFAN SULFATE	ug/L	1031-07-8	na	ne	10	0	0%	--	--	--	--	--	--	<2.0	<0.19	<0.19	<0.19	<0.20	<0.19	<0.19
	ENDRIN	ug/L	72-20-8	na	2.00	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	ENDRIN ALDEHYDE	ug/L	7421-93-4	na	ne	10	0	0%	--	--	--	--	--	--	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	ENDRIN KETONE	ug/L	53494-70-5	na	ne	10	0	0%	--	--	--	--	--	--	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	GAMMA-BHC (LINDANE)	ug/L	58-89-9	7800	0.20	10	3	30%	0.012	0.6803333	0.029	2	1	10%	2.0	<0.094	<0.095	0.029	<0.10	<0.094	<0.094
	HEPTACHLOR	ug/L	76-44-8	na	0.40	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.010	<0.0094	<0.0094
	HEPTACHLOR EPOXIDE	ug/L	1024-57-3	275	0.20	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.0050	<0.0047	<0.0047
	METHOXYCHLOR	ug/L	72-43-5	na	40	10	0	0%	--	--	--	--	0	0%	<1.0	<0.094	<0.095	<0.094	<0.10	<0.094	<0.094
	TOXAPHENE	ug/L	8001-35-2	na	3.00	10	0	0%	--	--	--	--	0	0%	<51	<4.7	<4.8	<4.7UJ	<0.50UJ	<0.47	<4.7

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	Solubility	BCL[1]	No. Analyses	No. Detcs.	Freq. Detc.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL							
															Location ID	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
															Water Bearing Zone	Shallow	Shallow	Shallow	Middle	Middle	Middle	Middle
															Sample ID	EC-9-10202006	EC-9-0408	EC-9-1008	EC-14-20090310	EC-14-20091113	EC-14-20100503	EC-14 20110414
															Date	10/20/2006	4/21/2008	10/31/2008	3/10/2009	11/13/2009	5/3/2010	4/14/2011
OP PEST [EPA 8141A]	AZINPHOS-METHYL	ug/L	86-50-0	na	ne	2	0	0%	--	--	--	--	--	--	<240			<2.5			
	BOLSTAR	ug/L	35400-43-2	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1			
	CARBOPHENOTHION (TRITHION)	ug/L	786-19-6	40000	ne	2	2	100%	0.82	28.41	28.41	56	--	--	56			0.82			
	CHLORPYRIFOS	ug/L	2921-88-2	na	110	2	0	0%	--	--	--	--	0	0%	<120			<1.5			
	COUMAPHOS	ug/L	56-72-4	1500	ne	2	0	0%	--	--	--	--	--	--	<240			<1UJ			
	DEMETON	ug/L	8065-48-3	Insoluble	ne	2	0	0%	--	--	--	--	--	--	<120			<3			
	DEMETON-O	ug/l	298-03-3	na	ne	1	0	0%	--	--	--	--	--	--				<1			
	DEMETON-S	ug/l	126-75-0	na	ne	1	0	0%	--	--	--	--	--	--				<2			
	DIAZINON	ug/L	333-41-5	na	33	2	0	0%	--	--	--	--	0	0%	<120			<0.5			
	DICHLORVOS	ug/L	62-73-7	na	0.23	2	0	0%	--	--	--	--	0	0%	<120			<0.5			
	DIMETHOATE	ug/L	60-51-5	25000000	ne	2	0	0%	--	--	--	--	--	--	<240			<1.5			
	DISULFOTON	ug/L	298-04-4	na	1.46	2	0	0%	--	--	--	--	0	0%	<120			<1UJ			
	EPN	ug/L	2104-64-5	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1.2			
	ETHION	ug/L	563-12-2	na	18	1	0	0%	--	--	--	--	0	0%	<120						
	ETHOPROP	ug/L	13194-48-4	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1.5			
	ETHYL PARATHION	ug/L	56-38-2	na	219	2	0	0%	--	--	--	--	0	0%	<120			<1			
	FAMPHUR	ug/L	52-85-7	na	ne	2	0	0%	--	--	--	--	--	--	<240			<1			
	FENSULFOTHION	ug/L	115-90-2	na	ne	2	0	0%	--	--	--	--	--	--	<120			<2.5			
	FENTHION	ug/L	55-38-9	na	ne	2	0	0%	--	--	--	--	--	--	<120			<2.5			
	MALATHION	ug/L	121-75-5	na	730	2	0	0%	--	--	--	--	0	0%	<120			<2UJ			
	MERPHOS	ug/L	150-50-5	na	ne	2	0	0%	--	--	--	--	--	--	<120			<5			
	METHYL CARBOPHENOTHION	ug/L	953-17-3	na	ne	2	0	0%	--	--	--	--	--	--	<120			<0.8UJ			
	METHYL PARATHION	ug/L	298-00-0	na	9.13	2	0	0%	--	--	--	--	0	0%	<120			<4			
	MEVINPHOS	ug/L	7786-34-7	na	ne	2	0	0%	--	--	--	--	--	--	<120			<6.2UJ			
	NALED	ug/L	300-76-5	1500	73	1	0	0%	--	--	--	--	0	0%	<240						
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	ug/L	126-68-1	na	ne	2	0	0%	--	--	--	--	--	--	<120			<0.5			
	PHORATE	ug/L	298-02-2	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1.2			
	PHOSMET	ug/L	732-11-6	na	ne	2	0	0%	--	--	--	--	--	--	<240			<1.5UJ			
	RONNEL	ug/L	299-84-3	na	1825	2	0	0%	--	--	--	--	0	0%	<120			<10UJ			
	STIROPHOS	ug/L	961-11-5	na	2.80	2	0	0%	--	--	--	--	0	0%	<240			<3.5UJ			
	SULFOTEPP	ug/L	3689-24-5	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1.5			
	THIONAZIN	ug/L	297-97-2	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1			
	TOKUTHION	ug/L	34643-46-4	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1.6			
	TRICHLORNATE	ug/L	327-98-0	na	ne	2	0	0%	--	--	--	--	--	--	<120			<1.5			
ORGACIDS [HPLC]	4-CHLOROBENZENESULFONIC ACID	ug/L	98-66-8	na	36500	3	1	33%	4900	4900	4900	4900	0	0%	<2000	4900		<50			
	BENZENESULFONIC ACID	ug/L	98-11-3	5,000,000	18250	3	2	67%	18000	659000	659000	1300000	1	33%	1.3e+006	18000		<50			
	DIETHYL PHOSPHORODITHIOIC ACID	ug/L	298-06-6	na	2920	3	3	100%	250	1866750	2400000	3200000	2	67%	2.4e+006	3200000		250			
	DIMETHYL PHOSPHORODITHIOIC ACID	ug/L	756-80-9	na	3650	3	3	100%	270	3100090	4500000	4800000	2	67%	4.5e+006	4800000		270			
	PHTHALIC ACID	ug/L	88-99-3	7,000,000	73000	3	2	67%	3400000	4050000	4050000	4700000	2	67%	4.7e+006	3400000		<50			
PCB [EPA 8082]	AROCLOR-1016	ug/L	12674-11-2	na	0.96	1	0	0%	--	--	--	--	0	0%				<0.94			
	AROCLOR-1221	ug/L	11104-28-2	na	0.034	1	0	0%	--	--	--	--	0	0%				<0.94			
	AROCLOR-1232	ug/L	11141-16-5	na	0.034	1	0	0%	--	--	--	--	0	0%				<0.94			
	AROCLOR-1242	ug/L	53469-21-9	na	0.034	1	0	0%	--	--	--	--	0	0%				<0.94			
	AROCLOR-1248	ug/L	12672-29-6	na	0.034	1	0	0%	--	--	--	--	0	0%				<0.94			
	AROCLOR-1254	ug/L	11097-69-1	na	0.034	1	0	0%	--	--	--	--	0	0%				<0.94			
	AROCLOR-1260	ug/L	11096-82-5	na	0.034	1	0	0%	--	--	--	--	0	0%				<0.94			
RADIOCHEM [EPA 903.1, 904.0]	RADIUM 226	pCi/L	13982-63-3	na	ne	1	1	100%	3.02	3.02	3.02	3.02	--	--			3.02+/-0.33				
	RADIUM 228	pCi/L	15262-20-1	na	ne	1	1	100%	4.6	4.6	4.6	4.6	--	--			4.6+/-0.36				
	RADON 222	pCi/L	14859-67-7	na	ne	1	1	100%	42.2	42.2	42.2	42.2	--	--			42.2+/-11				

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[(1)]

Group and Method	Analyte	Units	CAS	Solubility	BCL[1]	No. Analyses	No. Detcs.	Freq. Detc.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
														Location ID	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
														Water Bearing Zone	Shallow	Shallow	Shallow	Middle	Middle	Middle	Middle
														Sample ID	EC-9-10202006	EC-9-0408	EC-9-1008	EC-14-20090310	EC-14-20091113	EC-14-20100503	EC-14 20110414
														Date	10/20/2006	4/21/2008	10/31/2008	3/10/2009	11/13/2009	5/3/2010	4/14/2011
SVOC [EPA 8270C]	1,1'-SULFONYBIS BENZENE	ug/L	127-63-9	na	110	3	0	0%	--	--	--	--	0	0%	<410	<210		<9.6			
	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	ug/L	608-73-1	na	ne	1	0	0%	--	--	--	--	--	--				<0.048			
	1,2,4,5-TETRACHLOROBENZENE	ug/L	95-94-3	560	11	3	0	0%	--	--	--	--	0	0%	<410	<210		<9.6			
	1,2,4,5-TETRACHLOROBENZENE ISOMER	ug/L	95-94-3i	na	ne	1	0	0%	--	--	--	--	--	--				<0.048			
	1,2,4-TRICHLOROBENZENE	ug/L	120-82-1	48800	70	5	0	0%	--	--	--	--	0	0%	<410UJ	<210	<47	<9.6	<9.5		
	1,2-DICHLOROBENZENE	ug/L	95-50-1	147000	600	5	1	20%	450	450	450	450	0	0%	<410UJ	450	<47	<9.6	<9.5		
	1,3-DICHLOROBENZENE	ug/L	541-73-1	123000	87	5	0	0%	--	--	--	--	0	0%	<410UJ	<210	<47	<9.6	<9.5		
	1,4-DICHLOROBENZENE	ug/L	106-46-7	79,000	75	5	1	20%	480	480	480	480	1	20%	<410UJ	480	<47	<9.6	<9.5		
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	ug/L	98-57-7	na	ne	3	0	0%	--	--	--	--	--	--	<410	<210		<9.6			
	2,2'-/4,4'-DICHLOROBENZIL	ug/L	DCBZL	na	ne	2	0	0%	--	--	--	--	--	--	<410	<210					
	2,4,5-TRICHLOROPHENOL	ug/L	95-95-4	1200000	3650	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	2,4,6-TRICHLOROPHENOL	ug/L	88-06-2	800000	6.11	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	2,4-DICHLOROPHENOL	ug/L	120-83-2	5000000	110	4	0	0%	--	--	--	--	0	0%	<410	<210	<47		<9.5		
	2,4-DIMETHYLPHENOL	ug/L	105-67-9	na	730	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	2,4-DINITROPHENOL	ug/L	51-28-5	na	73	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	2,4-DINITROTOLUENE	ug/L	121-14-2	na	0.22	4	0	0%	--	--	--	--	0	0%	<410	<210	<47		<9.5		
	2,4-DITHIAPENTANE	ug/l	1618-26-4	na	ne	1	1	100%	22000	22000	22000	22000	--	--	22000						
	2,4-DITHIAPENTANE ISOMER1	ug/l	1618-26-4(1)	na	ne	1	1	100%	4500	4500	4500	4500	--	--	4500						
	2,6-DINITROTOLUENE	ug/L	606-20-2	na	37	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	2-CHLORONAPHTHALENE	ug/L	91-58-7	na	2.08	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	2-CHLOROPHENOL	ug/L	95-57-8	28,000,000	66	5	1	20%	240	240	240	240	1	20%	<410	240	<47	<9.6	<9.5		
	2-METHYLNAPHTHALENE	ug/L	91-57-6	na	ne	4	0	0%	--	--	--	--	--	--	<410	<210	<47		<9.5		
	2-METHYLPHENOL	ug/L	95-48-7	26000000	1825	4	0	0%	--	--	--	--	0	0%	<410	<210	<47		<9.5		
	2-NITROANILINE	ug/L	88-74-4	na	110	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	2-NITROPHENOL	ug/L	88-75-5	na	ne	5	0	0%	--	--	--	--	--	--	<410	<210	<47	<9.6	<9.5		
	3,3'-DICHLOROBENZIDINE	ug/L	91-94-1	na	0.15	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19UJ	<19		
	3-NITROANILINE	ug/L	99-09-2	na	ne	4	0	0%	--	--	--	--	--	--	<820	<420	<94		<19		
	4,6-DINITRO-2-METHYLPHENOL	ug/L	534-52-1	na	ne	5	0	0%	--	--	--	--	--	--	<820	<420	<94	<19	<19		
	4-BROMOPHENYL PHENYL ETHER	ug/L	101-55-3	na	ne	5	0	0%	--	--	--	--	--	--	<410	<210	<47	<9.6	<9.5		
	4-CHLORO-3-METHYLPHENOL	ug/L	59-50-7	na	ne	5	0	0%	--	--	--	--	--	--	<820	<420	<94	<19	<19		
	4-CHLOROANILINE	ug/L	106-47-8	na	0.34	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	4-CHLOROBENZENETHIOL	ug/L	106-54-7	na	ne	3	1	33%	6800	6800	6800	6800	--	--	6800J+	<4200		<190			
	4-CHLOROPHENYL METHYL SULFIDE (P-CHLOROTHIOANISOLE)	ug/L	123-09-1	na	ne	3	2	67%	3.3	291.65	291.65	580	--	--	<410	580		3.3			
	4-CHLOROPHENYL PHENYL ETHER	ug/L	7005-72-3	na	ne	5	0	0%	--	--	--	--	--	--	<410	<210	<47	<9.6	<9.5		
	4-METHYLPHENOL	ug/L	106-44-5	18000000	183	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	4-NITROANILINE	ug/L	100-01-6	na	ne	5	0	0%	--	--	--	--	--	--	<820	<420	<94	<19	<19		
	4-NITROPHENOL	ug/L	100-02-7	na	292	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	ACENAPHTHENE	ug/L	83-32-9	na	6.24	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	ACENAPHTHYLENE	ug/L	208-96-8	na	6.22	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	ANILINE	ug/L	62-53-3	na	12	4	0	0%	--	--	--	--	0	0%	<410	<210UJ	<47		<9.5		
	ANTHRACENE	ug/L	120-12-7	na	6.25	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	AZOBENZENE	ug/l	103-33-3	na	0.12	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	BENZIDINE	ug/l	92-87-5	na	0.0003	2	0	0%	--	--	--	--	0	0%			<94		<19		
	BENZO(A)ANTHRACENE	ug/L	56-55-3	na	0.092	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	BENZO(A)PYRENE	ug/L	50-32-8	na	0.20	5	0	0%	--	--	--	--	0	0%	<410UJ	<210UJ	<47	<9.6	<9.5		
	BENZO(B)FLUORANTHENE	ug/L	205-99-2	na	0.092	5	0	0%	--	--	--	--	0	0%	<410UJ	<210UJ	<47	<9.6	<9.5		
	BENZO(GHI)PERYLENE	ug/L	191-24-2	na	1095	5	0	0%	--	--	--	--	0	0%	<410UJ	<210UJ	<47	<9.6	<9.5		
	BENZO(K)FLUORANTHENE	ug/L	207-08-9	na	0.92	5	0	0%	--	--	--	--	0	0%	<410UJ	<210UJ	<47	<9.6	<9.5		
	BENZOIC ACID	ug/L	65-85-0	3400000	146000	5	2	40%	170	475	475	780	0	0%	780	<420	170	<19	<19		
	BENZOPHENONE	ug/L	119-61-9	na	ne	3	0	0%	--	--	--	--	--	--	<410	<210		<9.6			
	BENZYL ALCOHOL	ug/L	100-51-6	42900000	18250	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	BIS(2-CHLOROETHOXY)METHANE	ug/L	111-91-1	na	ne	4	0	0%	--	--	--	--	--	--	<410	<210	<47		<9.5		
	BIS(2-CHLOROETHYL)ETHER	ug/L	111-44-4	na	0.012	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	108-60-1	na	0.32	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	117-81-7	400	6.00	5	0	0%	--	--	--	--	0	0%	<2000	<1000	<240	<48	<48		
	BIS(4-CHLOROPHENYL)DISULFIDE	ug/L	1142-19-4	na	ne	3	0	0%	--	--	--	--	--	--	<410	<210		<9.6			
	BIS-(4-CHLOROPHENYL)METHANONE	ug/L	90-98-2	na	ne	3	0	0%	--	--	--	--	--	--	<410	<210		<9.6			
	BUTYL BENZYL PHTHALATE	ug/L	85-68-7	na	35	4	0	0%	--	--	--	--	0	0%	<820	<420	<94		<19		
	CHLOROBENZENE	ug/L	108-90-7	488,000	100	1	1	100%	4400	4400	4400	4400	1	100%	4400J-						
	CHRYSENE	ug/L	218-01-9	na	9.21	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	DIBENZO(A,H)ANTHRACENE	ug/L	53-70-3	na	0.009	5	0	0%	--	--	--	--	0	0%	<820UJ	<420UJ	<94	<19	<19		
	DIBENZOFURAN	ug/L	132-64-9	na	73	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[(1)]

Group and Method	Analyte	Units	CAS	Solubility	BCL[1]	No. Analyses	No. Detcs.	Freq. Detc.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
	Location ID														EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
	Water Bearing Zone														Shallow	Shallow	Shallow	Middle	Middle	Middle	Middle
	Sample ID														EC-9-10202006	EC-9-0408	EC-9-1008	EC-14-20090310	EC-14-20091113	EC-14-20100503	EC-14 20110414
	Date														10/20/2006	4/21/2008	10/31/2008	3/10/2009	11/13/2009	5/3/2010	4/14/2011
SVOC [EPA 8270C]	DIETHYL PHOSPHORODITHIOIC ACID	ug/L	298-06-6	na	2920	1	0	0%	--	--	--	--	0	0%				<48			
	DIETHYL PHTHALATE	ug/L	84-66-2	na	29200	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	DIMETHYL PHTHALATE	ug/L	131-11-3	na	365000	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	DI-N-BUTYL PHTHALATE	ug/L	84-74-2	na	3650	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	DI-N-OCTYL PHTHALATE	ug/L	117-84-0	na	ne	5	0	0%	--	--	--	--	--	--	<820	<420	<94	<19	<19		
	FLUORANTHENE	ug/L	206-44-0	na	1460	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	FLUORENE	ug/L	86-73-7	na	6.23	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	ug/L	28903-24-4	na	ne	1	0	0%	--	--	--	--	--	--				<0.048			
	HEXACHLOROBENZENE	ug/L	118-74-1	na	1.00	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	HEXACHLOROBUTADIENE	ug/L	87-68-3	3230	0.86	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	HEXACHLOROCYCLOPENTADIENE	ug/L	77-47-4	na	50	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	HEXACHLOROETHANE	ug/L	67-72-1	na	4.80	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	INDENO(1,2,3-CD)PYRENE	ug/L	193-39-5	na	0.092	5	0	0%	--	--	--	--	0	0%	<820UJ	<420UJ	<94	<19	<19		
	ISOPHORONE	ug/L	78-59-1	na	71	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	METHYL ETHYL DISULPHIDE	ug/L	20333-39-5	na	ne	1	1	100%	7900	7900	7900	7900	--	--	7900						
	NAPHTHALENE	ug/L	91-20-3	31700	0.14	5	0	0%	--	--	--	--	0	0%	<410UJ	<210	<47	<9.6	<9.5		
	N-HYDROXYMETHYLPHTHALIMIDE	ug/L	118-29-6	na	ne	3	0	0%	--	--	--	--	--	--	<8200UJ	<4200UJ		<190			
	NITROBENZENE	ug/L	98-95-3	na	0.12	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	N-NITROSODIMETHYLAMINE	ug/L	62-75-9	na	0.0013	3	0	0%	--	--	--	--	0	0%	<820	<420		<19			
	N-NITROSO-DI-N-PROPYLAMINE	ug/L	621-64-7	na	0.010	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	N-NITROSODIPHENYLAMINE	ug/l	86-30-6	na	14	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	OCTACHLOROSTYRENE	ug/L	29082-74-4	na	ne	2	0	0%	--	--	--	--	--	--	<820	<420					
	P-CHLOROPHENYL SULFONE	ug/L	80-07-9	na	ne	3	0	0%	--	--	--	--	--	--	<410	<210		<9.6			
	PENTACHLOROBENZENE	ug/L	608-93-5	na	29	3	0	0%	--	--	--	--	0	0%	<410	<210		<9.6			
	PENTACHLOROPHENOL	ug/L	87-86-5	na	1.00	5	0	0%	--	--	--	--	0	0%	<820	<420	<94	<19	<19		
	PHENANTHRENE	ug/L	85-01-8	na	6.22	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	PHENOL	ug/L	108-95-2	82000000	10950	5	3	60%	4400	6266.6667	6900	7500	0	0%	4400	6900	7500	<9.6	<9.5		
	PHENYL DISULFIDE	ug/L	882-33-7	na	ne	3	0	0%	--	--	--	--	--	--	<410	<210		<9.6			
	PHENYL SULFIDE	ug/L	139-66-2	na	ne	2	0	0%	--	--	--	--	--	--	<410	<210					
	PHTHALIC ACID	ug/L	88-99-3	7000000	73000	1	1	100%	5500	5500	5500	5500	0	0%	5500						
	PHTHALIC ACID, MONOETHYL ESTER	ug/L	2306-33-4	na	ne	1	1	100%	11000	11000	11000	11000	--	--	11000						
	PYRENE	ug/L	129-00-0	na	6.22	5	0	0%	--	--	--	--	0	0%	<410	<210	<47	<9.6	<9.5		
	PYRIDINE	ug/L	110-86-1	na	32	3	0	0%	--	--	--	--	0	0%	<820	<420		<19			
	THIOPHENOL	ug/L	108-98-5	706000	ne	3	0	0%	--	--	--	--	--	--	<8200	<4200		<190			
VOC	1,1,1,2-TETRACHLOROETHANE	ug/L	630-20-6	na	0.52	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	1,1,1-TRICHLOROETHANE	ug/L	71-55-6	na	200	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	1,1,2,2-TETRACHLOROETHANE	ug/L	79-34-5	na	0.067	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	1,1,2-TRICHLOROETHANE	ug/L	79-00-5	4420000	5.00	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	1,1-DICHLOROETHANE	ug/L	75-34-3	5060000	2.42	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	1,1-DICHLOROETHENE	ug/L	75-35-4	2500000	7.00	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	1,1-DICHLOROPROPENE	ug/L	563-58-6	na	ne	9	0	0%	--	--	--	--	--	--	<200	<800	<1000	<2		<2.0	<2.0
	1,2,3-TRICHLOROBENZENE	ug/L	87-61-6	18000	ne	9	0	0%	--	--	--	--	--	--	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	1,2,3-TRICHLOROPROPANE	ug/L	96-18-4	na	0.0022	9	0	0%	--	--	--	--	0	0%	<1000	<4000	<5000	<10		<10	<10
	1,2,4-TRICHLOROBENZENE	ug/L	120-82-1	48800	70	9	0	0%	--	--	--	--	0	0%	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	1,2,4-TRIMETHYLBENZENE	ug/L	95-63-6	51900	15	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	96-12-8	na	0.20	8	0	0%	--	--	--	--	0	0%		<2000	<2500	<5		<5.0	<5.0UJ
	1,2-DIBROMOETHANE	ug/L	106-93-4	na	0.050	8	0	0%	--	--	--	--	0	0%		<800	<1000	<2		<2.0	<2.0
	1,2-DICHLOROBENZENE	ug/L	95-50-1	147000	600	10	5	50%	0.34	0.898	0.48	2.4	0	0%	<200UJ	<800UJ	<1000	<2	0.86J-	<2.0	2.4
	1,2-DICHLOROETHANE	ug/L	107-06-2	8524000	5.00	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	1,2-DICHLOROPROPANE	ug/L	78-87-5	na	5.00	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	1,3,5-TRICHLOROBENZENE	ug/L	108-70-3	6010	ne	2	0	0%	--	--	--	--	--	--	<200UJ			<2			
	1,3,5-TRIMETHYLBENZENE	ug/L	108-67-8	na	14	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	1,3-DICHLOROBENZENE	ug/L	541-73-1	123000	87	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	1,3-DICHLOROPROPANE	ug/L	142-28-9	2700000	8.25	9	0	0%	--	--	--	--	0	0%	<500	<800	<1000	<5		<2.0	<2.0
	1,4-DICHLOROBENZENE	ug/L	106-46-7	79000	75	10	4	40%	0.59	1.4675	1.24	2.8	0	0%	<200UJ	<800UJ	<1000	<2	1.5J-	<2.0	2.8
	2,2,3-TRIMETHYLBUTANE	ug/L	464-06-2	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	2,2-DICHLOROPROPANE	ug/L	594-20-7	na	ne	9	0	0%	--	--	--	--	--	--	<200	<800	<1000	<2		<2.0	<2.0
	2,2-DIMETHYLPENTANE	ug/L	590-35-2	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	2,3-DIMETHYLPENTANE	ug/L	565-59-3	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	2,4-DIMETHYLPENTANE	ug/L	108-08-7	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	2-BUTANONE	ug/L	78-93-3	na	7065	2	0	0%	--	--	--	--	0	0%	<1000UJ			<10			
	2-CHLOROTOLUENE	ug/L	95-49-8	470000	91	9	0	0%	--	--	--	--	0	0%	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	2-HEXANONE	ug/L	591-78-6	na	63	2	0	0%	--	--	--	--	0	0%	<1000			<10			
	2-METHYLHEXANE	ug/L	591-76-4	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	3,3-DIMETHYLPENTANE	ug/L	562-49-2	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	3-ETHYLPENTANE	ug/L	617-78-7	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[(1)]

Group and Method	Analyte	Units	CAS	Solubility	BCL[1]	No. Analyses	No. Detcs.	Freq. Detc.	Min. Detc.	Mean Detc.	Median Detc.	Max Detc.	No. ≥BCL	Freq. ≥BCL	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
														Location ID	EC-09	EC-09	EC-09	EC-14	EC-14	EC-14	EC-14
														Water Bearing Zone	Shallow	Shallow	Shallow	Middle	Middle	Middle	Middle
														Sample ID	EC-9-10202006	EC-9-0408	EC-9-1008	EC-14-20090310	EC-14-20091113	EC-14-20100503	EC-14 20110414
														Date	10/20/2006	4/21/2008	10/31/2008	3/10/2009	11/13/2009	5/3/2010	4/14/2011
VOC [EPA 8260B]	3-METHYLHEXANE	ug/L	589-34-4	na	ne	2	0	0%	--	--	--	--	--	--	<200			<2			
	4-CHLOROTOLUENE	ug/L	106-43-4	106000	ne	9	0	0%	--	--	--	--	--	--	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	4-METHYL-2-PENTANONE	ug/L	108-10-1	na	1991	2	0	0%	--	--	--	--	0	0%	<1000			<10			
	ACETONE	ug/L	67-64-1	Miscible	21783	2	0	0%	--	--	--	--	0	0%	<1000			<10			
	BENZENE	ug/L	71-43-2	1,780,000	5.00	10	7	70%	0.7	30434.9	22	80000	6	60%	80000J-	76000J-	57000	22	14J-	0.70	7.6
	BROMOBENZENE	ug/L	108-86-1	na	88	9	0	0%	--	--	--	--	0	0%	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	BROMOCHLOROMETHANE	ug/L	74-97-5	na	ne	9	0	0%	--	--	--	--	--	--	<500	<2000	<2500	<5		<5.0	<5.0
	BROMODICHLOROMETHANE	ug/L	75-27-4	4700000	0.12	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	BROMOFORM	ug/L	75-25-2	3130000	8.51	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	BROMOMETHANE	ug/L	74-83-9	na	8.66	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	CARBON DISULFIDE	ug/L	75-15-0	1185000	1043	2	1	50%	340	340	340	340	0	0%	340			<5			
	CARBON TETRACHLORIDE	ug/L	56-23-5	na	5.00	9	1	11%	0.32	0.32	0.32	0.32	0	0%	<500	<2000	<2500	0.32		<5.0	<1.0
	CHLOROBENZENE	ug/L	108-90-7	488,000	100	10	9	90%	0.52	789.02444	38	2700	3	30%	2700J-	2000J-	2300	39	38J-	7.7	15
	CHLOROETHANE	ug/L	75-00-3	na	23	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	CHLOROFORM	ug/L	67-66-3	8,200,000	0.19	10	4	40%	0.42	3.12	1.28	9.5	4	40%	<200	<800	<1000	0.46	2.1J-	0.42	9.5
	CHLOROMETHANE	ug/L	74-87-3	na	2.70	9	0	0%	--	--	--	--	0	0%	<500	<2000UJ	<2500	<5		<5.0	<5.0
	CIS-1,2-DICHLOROETHENE	ug/L	156-59-2	na	70	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	CIS-1,3-DICHLOROPROPENE	ug/L	10061-01-5	na	ne	9	0	0%	--	--	--	--	--	--	<200	<800	<1000	<2		<2.0	<2.0
	DIBROMOCHLOROMETHANE	ug/L	124-48-1	2509000	0.15	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	DIBROMOMETHANE	ug/L	74-95-3	na	8.16	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	DICHLORODIFLUOROMETHANE	ug/L	75-71-8	na	395	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5UJ		<5.0	<5.0
	DIMETHYL DISULFIDE	ug/L	624-92-0	na	ne	9	4	44%	2.8	350000.7	435000	530000	--	--	400000	530000J-	470000	2.8		<2.0	<2.0
	ETHYLBENZENE	ug/L	100-41-4	na	700	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	HEXACHLOROBUTADIENE	ug/L	87-68-3	3230	0.86	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	ISOPROPYLBENZENE	ug/L	98-82-8	na	679	8	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000			<2.0	<2.0
	M,P-XYLENES	ug/L	179601-23-1	na	ne	9	0	0%	--	--	--	--	--	--	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	METHANETHIOL	ug/L	74-93-1	na	21	1	1	100%	160000	160000	160000	160000	1	100%	160000						
	METHYLENE CHLORIDE	ug/L	75-09-2	17300000	5.00	9	1	11%	1.3	1.3	1.3	1.3	0	0%	<500	<2000	<2500	<5		<1.5U	<2.0
	METHYL-TERT-BUTYL ETHER	ug/L	1634-04-4	na	12	2	0	0%	--	--	--	--	0	0%	<500			<5			
	NAPHTHALENE	ug/L	91-20-3	31700	0.14	9	0	0%	--	--	--	--	0	0%	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	N-BUTYLBENZENE	ug/L	104-51-8	na	254	9	0	0%	--	--	--	--	0	0%	<200UJ	<2000UJ	<2500	<2		<5.0	<5.0
	N-HEPTANE	ug/L	142-82-5	2900	0.20	2	0	0%	--	--	--	--	0	0%	<500			<5			
	NONANAL	ug/L	124-19-6	na	ne	2	0	0%	--	--	--	--	--	--	<500			<5			
	N-PROPYLBENZENE	ug/L	103-65-1	na	254	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	O-XYLENE	ug/L	95-47-6	na	1217	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	P-ISOPROPYL TOLUENE	ug/L	99-87-6	23400	834	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	SEC-BUTYLBENZENE	ug/L	135-98-8	na	254	9	0	0%	--	--	--	--	0	0%	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	STYRENE	ug/L	100-42-5	na	100	9	0	0%	--	--	--	--	0	0%	<200UJ	<800UJ	<1000	<2		<2.0	<2.0
	TERT- BUTYLBENZENE	ug/L	98-06-6	na	254	9	0	0%	--	--	--	--	0	0%	<500UJ	<2000UJ	<2500	<5		<5.0	<5.0
	TETRACHLOROETHENE	ug/L	127-18-4	150000	5.00	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	TOLUENE	ug/L	108-88-3	534800	1000	9	2	22%	0.48	33.74	33.74	67	0	0%	67J-	<800UJ	<1000	0.48		<2.0	<2.0
	TRANS-1,2-DICHLOROETHENE	ug/L	156-60-5	na	100	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	TRANS-1,3-DICHLOROPROPENE	ug/L	10061-02-6	na	ne	9	0	0%	--	--	--	--	--	--	<200	<800	<1000	<2		<2.0	<2.0
	TRICHLOROETHENE	ug/L	79-01-6	na	5.00	9	0	0%	--	--	--	--	0	0%	<200	<800	<1000	<2		<2.0	<2.0
	TRICHLOROFLUOROMETHANE	ug/L	75-69-4	na	1288	9	0	0%	--	--	--	--	0	0%	<500	<2000	<2500	<5		<5.0	<5.0
	VINYL CHLORIDE	ug/L	75-01-4	na	2.00	9	0	0%	--	--	--	--	0	0%	<200	<2000	<2500	<2		<5.0	<5.0

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	EC-14 Middle EC-14-20120427 4/27/2012	EC-14 Middle EC-14-20130424 4/24/2013	EC-14 Middle EC-14-20140617 6/17/2014
ALDEHYDES [EPA 8315A]	ACETALDEHYDE	ug/L	75-07-0			
	CHLOROACETALDEHYDE	ug/L	107-20-0			
	FORMALDEHYDE	ug/L	50-00-0			
DIOX	1,2,3,4,6,7,8-HEPTACHLORINATED DIBENZO-P-DIOXIN	ug/l	35822-46-9			
	1234678-HEPTACHLORINATED DIBENZOFURAN	ug/l	67562-39-4			
	1234789-HEPTACHLORINATED DIBENZOFURAN	ug/l	55673-89-7			
	123478-HEXACHLORINATED DIBENZOFURAN	ug/l	70648-26-9			
	123478-HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	39227-28-6			
	123678-HEXACHLORINATED DIBENZOFURAN	ug/l	57117-44-9			
	123678-HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	57653-85-7			
	123789-HEXACHLORINATED DIBENZOFURAN	ug/l	72918-21-9			
	123789-HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	19408-74-3			
	12378-PENTACHLORINATED DIBENZOFURAN	ug/l	57117-41-6			
	12378-PENTACHLORINATED DIBENZO-P-DIOXIN	ug/l	40321-76-4			
	2,3,7,8-TCDD	ug/l	1746-01-6			
	234678-HEXACHLORINATED DIBENZOFURAN	ug/l	60851-34-5			
	23478-PENTACHLORINATED DIBENZOFURAN	ug/l	57117-31-4			
	2378-TETRACHLORINATED DIBENZOFURAN	ug/l	51207-31-9			
	HEPTACHLORINATED DIBENZOFURAN	ug/l	38998-75-3			
	HEPTACHLORINATED DIBENZO-P-DIOXIN	ug/l	37871-00-4			
	HEXACHLORINATED DIBENZOFURAN	ug/l	55684-94-1			
	HEXACHLORINATED DIBENZO-P-DIOXIN	ug/l	34465-46-8			
	OCTACHLORINATED DIBENZOFURAN	ug/l	39001-02-0			
	OCTACHLORINATED DIBENZO-P-DIOXIN	ug/l	3268-87-9			
	PENTACHLORINATED DIBENZOFURAN	ug/l	30402-15-4			
	PENTACHLORINATED DIBENZO-P-DIOXIN	ug/l	36088-22-9			
	TETRACHLORINATED DIBENZOFURAN	ug/l	55722-27-5			
	TETRACHLORINATED DIBENZO-P-DIOXIN	ug/l	41903-57-5			
HYDROCARB/ALC [EPA 8015B/Mod]	DRO (C8-C24)	mg/l	PHCC8C24			
	EFH (C8 - C40)	mg/l	PHCC8C40			
	ETHANOL	ug/L	64-17-5			
	METHANOL	ug/L	67-56-1			
	ORO (C25-C40)	mg/l	PHCC25C40			
	VOLATILE FUEL HYDROCARBONS (C6-C12)	mg/l	GROC6C12			
INORG_GC [EPA 150.1, 160.1, 300.0, 310.1, 314.0, 335.2, 350.1, 350.3, 365.3, 6850, 9014, 9056, 3005A, 9040B] [SM 2320B, 2540C, 4500, 5310B]	ALKALINITY AS CACO3	mg/L	10-09-3		120	
	ALKALINITY, CARBONATE (AS CACO3)	mg/L	ALKC	<10	<4.0	
	ALKALINITY, HYDROXIDE AS CACO3	mg/L	ALKH	<10	<4.0	
	ALKALINITY, TOTAL	mg/l	11-43-8	99		
	AMMONIA (AS N)	mg/l	7664-41-7	<0.1		
	AMMONIA (AS NH3)	mg/L	NH3NH3		0.93	
	BICARBONATE	mg/l	71-52-3			
	BROMIDE	mg/L	24959-67-9	0.17	0.89	
	CARBONATE AS CACO3	mg/l	3812-32-6			
	CATION/ANION BALANCE	%	Q901	6.48		
	CHLORIDE	mg/L	16887-00-6	180	190J-	
	CYANIDE	mg/l	57-12-5			
	FILTRATION	N/A	Filtration			
	FLUORIDE	mg/L	16984-48-8	0.59	0.61J-	
	HYDROXIDE	mg/l	14280-30-9			
	IODIDE	ug/l	IODIDE			
	NITRATE (AS N)	mg/L	14797-55-8	0.45	0.73	
	NITRITE (AS N)	mg/L	14797-65-0	<0.1	<0.15	
	ORTHOPHOSPHATE AS PO4	mg/L	ORTHOPO4		0.65	
	PERCHLORATE	ug/L	14797-73-0	1.3J	0.39	5.2
	PH	pH units	pH	7.69J	5.88J	
	PHOSPHATE		14265-44-2			
	PHOSPHORUS, TOTAL (AS P)	mg/l	14596-37-3			
	SULFATE	mg/L	14808-79-8	190	220J-	
	TOTAL DISSOLVED SOLIDS	mg/L	10-33-3	720	760	740
	TOTAL INORGANIC CARBON	mg/l	TOTIC			

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	EC-14 Middle EC-14-20120427 4/27/2012	EC-14 Middle EC-14-20130424 4/24/2013	EC-14 Middle EC-14-20140617 6/17/2014
METALS	ALUMINUM	mg/l	7429-90-5	<0.015	0.02	
	ANTIMONY	mg/L	7440-36-0			
[EPA 6010B, 6020,	ARSENIC	ug/L	7440-38-2	28	28	27
7470A, 200.7, 7199]	BARIUM	mg/l	7440-39-3	0.034	0.037	0.04
	BERYLLIUM	mg/L	7440-41-7			
	CADMIUM	mg/l	7440-43-9	0.00036	0.000055	0.000078
	CALCIUM	mg/L	7440-70-2	39J+	61	
	CHROMIUM	mg/l	7440-47-3	0.014	0.006	0.017
	COBALT	mg/L	7440-48-4			
	COPPER	mg/L	7440-50-8			
	HEXAVALENT CHROMIUM	mg/l	18540-29-9			
	IRON	mg/l	7439-89-6	<0.03	<0.01	
	LEAD	mg/l	7439-92-1	0.00062	0.000093	0.0011
	MAGNESIUM	mg/L	7439-95-4	18	21	
	MANGANESE	mg/l	7439-96-5	0.0087	0.026	
	MERCURY	mg/L	7439-97-6	<0.00006	<0.00020	<0.00020
	MOLYBDENUM	mg/L	7439-98-7			
	NICKEL	mg/L	7440-02-0			
	PHOSPHORUS, TOTAL (AS P)	mg/l	14596-37-3			
	POTASSIUM	mg/L	7440-09-7	7.1J+	8.6	
	SELENIUM	mg/l	7782-49-2	0.0016	0.0016	0.0021
	SILVER	mg/l	7440-22-4	<0.00003	<0.0001	<0.0001
	SODIUM	mg/L	7440-23-5	160	160	
	THALLIUM	mg/L	7440-28-0			
	TIN	mg/l	7440-31-5			
	TITANIUM	mg/l	7440-32-6			
	URANIUM	mg/l	7440-61-1	0.0037	0.0024	0.0027
	VANADIUM	mg/L	7440-62-2			
	ZINC	mg/L	7440-66-6			
OC PEST	2,4'-DDD	ug/L	53-19-0	<0.094	<0.10	<0.10
[EPA 3510C/8081A]	2,4'-DDE	ug/L	3424-82-6	<0.094	<0.10	<0.10
	2,4'-DDT	ug/L	789-02-6	<0.094	<0.10	<0.10
	4,4'-DDD	ug/L	72-54-8	<0.094	0.015	<0.10
	4,4'-DDE	ug/L	72-55-9	<0.094	<0.10	<0.10
	4,4'-DDT	ug/L	50-29-3	<0.094	0.022	<0.10
	ALDRIN	ug/L	309-00-2	<0.0047	<0.0052	<0.0051
	ALPHA-BHC	ug/L	319-84-6	0.024	<0.0052	0.019
	BETA-BHC	ug/L	319-85-7	0.034	0.0051	0.0071
	CHLORDANE	ug/L	57-74-9	<0.094	<0.10	<0.10
	DELTA-BHC	ug/L	319-86-8	0.0059	<0.21	<0.20
	DIELDRIN	ug/L	60-57-1	<0.0047	<0.0052	<0.0051
	ENDOSULFAN I	ug/L	959-98-8	<0.094	<0.10	<0.10
	ENDOSULFAN II	ug/L	33213-65-9	<0.094	<0.10	<0.10
	ENDOSULFAN SULFATE	ug/L	1031-07-8	<0.19	<0.21	<0.20
	ENDRIN	ug/L	72-20-8	<0.094	<0.10	<0.10
	ENDRIN ALDEHYDE	ug/L	7421-93-4	<0.094	<0.10	<0.10
	ENDRIN KETONE	ug/L	53494-70-5	<0.094	<0.10	<0.10
	GAMMA-BHC (LINDANE)	ug/L	58-89-9	0.012	<0.10	<0.10
	HEPTACHLOR	ug/L	76-44-8	<0.0094	<0.010	<0.010
	HEPTACHLOR EPOXIDE	ug/L	1024-57-3	<0.0047	<0.0052	<0.0051
	METHOXYCHLOR	ug/L	72-43-5	<0.094	<0.10	<0.10
	TOXAPHENE	ug/L	8001-35-2	<4.7	<5.2	<5.1

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	EC-14 Middle EC-14-20120427 4/27/2012	EC-14 Middle EC-14-20130424 4/24/2013	EC-14 Middle EC-14-20140617 6/17/2014
OP PEST [EPA 8141A]	AZINPHOS-METHYL	ug/L	86-50-0			
	BOLSTAR	ug/L	35400-43-2			
	CARBOPHENOTHION (TRITHION)	ug/L	786-19-6			
	CHLORPYRIFOS	ug/L	2921-88-2			
	COUMAPHOS	ug/L	56-72-4			
	DEMETON	ug/L	8065-48-3			
	DEMETON-O	ug/l	298-03-3			
	DEMETON-S	ug/l	126-75-0			
	DIAZINON	ug/L	333-41-5			
	DICHLORVOS	ug/L	62-73-7			
	DIMETHOATE	ug/L	60-51-5			
	DISULFOTON	ug/L	298-04-4			
	EPN	ug/L	2104-64-5			
	ETHION	ug/L	563-12-2			
	ETHOPROP	ug/L	13194-48-4			
	ETHYL PARATHION	ug/L	56-38-2			
	FAMPHUR	ug/L	52-85-7			
	FENSULFOTHION	ug/L	115-90-2			
	FENTHION	ug/L	55-38-9			
	MALATHION	ug/L	121-75-5			
	MERPHOS	ug/L	150-50-5			
	METHYL CARBOPHENOTHION	ug/L	953-17-3			
	METHYL PARATHION	ug/L	298-00-0			
	MEVINPHOS	ug/L	7786-34-7			
	NALED	ug/L	300-76-5			
	O,O,O-TRIETHYLPHOSPHOROTHIOATE	ug/L	126-68-1			
	PHORATE	ug/L	298-02-2			
	PHOSMET	ug/L	732-11-6			
	RONNEL	ug/L	299-84-3			
	STIROPHOS	ug/L	961-11-5			
	SULFOTEPP	ug/L	3689-24-5			
	THIONAZIN	ug/L	297-97-2			
	TOKUTHION	ug/L	34643-46-4			
	TRICHLORNATE	ug/L	327-98-0			
ORGACIDS [HPLC]	4-CHLOROBENZENESULFONIC ACID	ug/L	98-66-8			
	BENZENESULFONIC ACID	ug/L	98-11-3			
	DIETHYL PHOSPHORODITHIOIC ACID	ug/L	298-06-6			
	DIMETHYL PHOSPHORODITHIOIC ACID	ug/L	756-80-9			
	PHTHALIC ACID	ug/L	88-99-3			
PCB [EPA 8082]	AROCLOR-1016	ug/L	12674-11-2			
	AROCLOR-1221	ug/L	11104-28-2			
	AROCLOR-1232	ug/L	11141-16-5			
	AROCLOR-1242	ug/L	53469-21-9			
	AROCLOR-1248	ug/L	12672-29-6			
	AROCLOR-1254	ug/L	11097-69-1			
	AROCLOR-1260	ug/L	11096-82-5			
RADIOCHEM [EPA 903.1, 904.0]	RADIUM 226	pCi/L	13982-63-3			
	RADIUM 228	pCi/L	15262-20-1			
	RADON 222	pCi/L	14859-67-7			

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	EC-14 Middle EC-14-20120427 4/27/2012	EC-14 Middle EC-14-20130424 4/24/2013	EC-14 Middle EC-14-20140617 6/17/2014
SVOC [EPA 8270C]	1,1'-SULFONYBIS BENZENE	ug/L	127-63-9			
	1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE	ug/L	608-73-1			
	1,2,4,5-TETRACHLOROBENZENE	ug/L	95-94-3			
	1,2,4,5-TETRACHLOROBENZENE ISOMER	ug/L	95-94-3i			
	1,2,4-TRICHLOROBENZENE	ug/L	120-82-1			
	1,2-DICHLOROBENZENE	ug/L	95-50-1			
	1,3-DICHLOROBENZENE	ug/L	541-73-1			
	1,4-DICHLOROBENZENE	ug/L	106-46-7			
	1-CHLORO-4-(METHYLSULFONYL) BENZENE	ug/L	98-57-7			
	2,2'-/4,4'-DICHLOROBENZIL	ug/L	DCBZL			
	2,4,5-TRICHLOROPHENOL	ug/L	95-95-4			
	2,4,6-TRICHLOROPHENOL	ug/L	88-06-2			
	2,4-DICHLOROPHENOL	ug/L	120-83-2			
	2,4-DIMETHYLPHENOL	ug/L	105-67-9			
	2,4-DINITROPHENOL	ug/L	51-28-5			
	2,4-DINITROTOLUENE	ug/L	121-14-2			
	2,4-DITHIAPENTANE	ug/l	1618-26-4			
	2,4-DITHIAPENTANE ISOMER1	ug/l	1618-26-4(1)			
	2,6-DINITROTOLUENE	ug/L	606-20-2			
	2-CHLORONAPHTHALENE	ug/L	91-58-7			
	2-CHLOROPHENOL	ug/L	95-57-8			
	2-METHYLNAPHTHALENE	ug/L	91-57-6			
	2-METHYLPHENOL	ug/L	95-48-7			
	2-NITROANILINE	ug/L	88-74-4			
	2-NITROPHENOL	ug/L	88-75-5			
	3,3'-DICHLOROBENZIDINE	ug/L	91-94-1			
	3-NITROANILINE	ug/L	99-09-2			
	4,6-DINITRO-2-METHYLPHENOL	ug/L	534-52-1			
	4-BROMOPHENYL PHENYL ETHER	ug/L	101-55-3			
	4-CHLORO-3-METHYLPHENOL	ug/L	59-50-7			
	4-CHLOROANILINE	ug/L	106-47-8			
	4-CHLOROBENZENETHIOL	ug/L	106-54-7			
	4-CHLOROPHENYL METHYL SULFIDE (P-CHLOROTHIOANISOLE)	ug/L	123-09-1			
	4-CHLOROPHENYL PHENYL ETHER	ug/L	7005-72-3			
	4-METHYLPHENOL	ug/L	106-44-5			
	4-NITROANILINE	ug/L	100-01-6			
	4-NITROPHENOL	ug/L	100-02-7			
	ACENAPHTHENE	ug/L	83-32-9			
	ACENAPHTHYLENE	ug/L	208-96-8			
	ANILINE	ug/L	62-53-3			
	ANTHRACENE	ug/L	120-12-7			
	AZOBENZENE	ug/l	103-33-3			
	BENZIDINE	ug/l	92-87-5			
	BENZO(A)ANTHRACENE	ug/L	56-55-3			
	BENZO(A)PYRENE	ug/L	50-32-8			
	BENZO(B)FLUORANTHENE	ug/L	205-99-2			
	BENZO(GHI)PERYLENE	ug/L	191-24-2			
	BENZO(K)FLUORANTHENE	ug/L	207-08-9			
	BENZOIC ACID	ug/L	65-85-0			
	BENZOPHENONE	ug/L	119-61-9			
	BENZYL ALCOHOL	ug/L	100-51-6			
	BIS(2-CHLOROETHOXY)METHANE	ug/L	111-91-1			
	BIS(2-CHLOROETHYL)ETHER	ug/L	111-44-4			
	BIS(2-CHLOROISOPROPYL)ETHER	ug/L	108-60-1			
	BIS(2-ETHYLHEXYL)PHTHALATE	ug/L	117-81-7			
	BIS(4-CHLOROPHENYL)DISULFIDE	ug/L	1142-19-4			
	BIS-(4-CHLOROPHENYL)METHANONE	ug/L	90-98-2			
	BUTYL BENZYL PHTHALATE	ug/L	85-68-7			
	CHLOROBENZENE	ug/L	108-90-7			
	CHRYSENE	ug/L	218-01-9			
	DIBENZO(A,H)ANTHRACENE	ug/L	53-70-3			
	DIBENZOFURAN	ug/L	132-64-9			

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	EC-14 Middle EC-14-20120427 4/27/2012	EC-14 Middle EC-14-20130424 4/24/2013	EC-14 Middle EC-14-20140617 6/17/2014
SVOC [EPA 8270C]	DIETHYL PHOSPHORODITHIOIC ACID	ug/L	298-06-6			
	DIETHYL PHTHALATE	ug/L	84-66-2			
	DIMETHYL PHTHALATE	ug/L	131-11-3			
	DI-N-BUTYL PHTHALATE	ug/L	84-74-2			
	DI-N-OCTYL PHTHALATE	ug/L	117-84-0			
	FLUORANTHENE	ug/L	206-44-0			
	FLUORENE	ug/L	86-73-7			
	GAMMA-2,3,4,5,6-PENTACHLOROCYCLOHEXENE	ug/L	28903-24-4			
	HEXACHLOROBENZENE	ug/L	118-74-1			
	HEXACHLOROBUTADIENE	ug/L	87-68-3			
	HEXACHLOROCYCLOPENTADIENE	ug/L	77-47-4			
	HEXACHLOROETHANE	ug/L	67-72-1			
	INDENO(1,2,3-CD)PYRENE	ug/L	193-39-5			
	ISOPHORONE	ug/L	78-59-1			
	METHYL ETHYL DISULPHIDE	ug/L	20333-39-5			
	NAPHTHALENE	ug/L	91-20-3			
	N-HYDROXYMETHYLPHTHALIMIDE	ug/L	118-29-6			
	NITROBENZENE	ug/L	98-95-3			
	N-NITROSODIMETHYLAMINE	ug/L	62-75-9			
	N-NITROSO-DI-N-PROPYLAMINE	ug/L	621-64-7			
	N-NITROSODIPHENYLAMINE	ug/l	86-30-6			
	OCTACHLOROSTYRENE	ug/L	29082-74-4			
	P-CHLOROPHENYL SULFONE	ug/L	80-07-9			
	PENTACHLOROBENZENE	ug/L	608-93-5			
	PENTACHLOROPHENOL	ug/L	87-86-5			
	PHENANTHRENE	ug/L	85-01-8			
	PHENOL	ug/L	108-95-2			
	PHENYL DISULFIDE	ug/L	882-33-7			
	PHENYL SULFIDE	ug/L	139-66-2			
	PHTHALIC ACID	ug/L	88-99-3			
	PHTHALIC ACID, MONOETHYL ESTER	ug/L	2306-33-4			
	PYRENE	ug/L	129-00-0			
	PYRIDINE	ug/L	110-86-1			
	THIOPHENOL	ug/L	108-98-5			
VOC	1,1,1,2-TETRACHLOROETHANE	ug/L	630-20-6	<5.0	<5.0	<5.0
	1,1,1-TRICHLOROETHANE	ug/L	71-55-6	<2.0	<2.0	<2.0
	1,1,2,2-TETRACHLOROETHANE	ug/L	79-34-5	<2.0	<2.0	<2.0
	1,1,2-TRICHLOROETHANE	ug/L	79-00-5	<2.0	<2.0	<2.0
	1,1-DICHLOROETHANE	ug/L	75-34-3	<2.0	<2.0	<2.0
	1,1-DICHLOROETHENE	ug/L	75-35-4	<5.0	<5.0	<5.0
	1,1-DICHLOROPROPENE	ug/L	563-58-6	<2.0	<2.0	<2.0
	1,2,3-TRICHLOROBENZENE	ug/L	87-61-6	<5.0	<5.0	<5.0
	1,2,3-TRICHLOROPROPANE	ug/L	96-18-4	<10	<10	<10
	1,2,4-TRICHLOROBENZENE	ug/L	120-82-1	<5.0	<5.0	<5.0
	1,2,4-TRIMETHYLBENZENE	ug/L	95-63-6	<2.0	<2.0	<2.0
	1,2-DIBROMO-3-CHLOROPROPANE	ug/L	96-12-8	<5.0	<5.0	<5.0
	1,2-DIBROMOETHANE	ug/L	106-93-4	<2.0	<2.0	<2.0
	1,2-DICHLOROBENZENE	ug/L	95-50-1	0.48	0.41	0.34
	1,2-DICHLOROETHANE	ug/L	107-06-2	<2.0	<2.0	<2.0
	1,2-DICHLOROPROPANE	ug/L	78-87-5	<2.0	<2.0	<2.0
	1,3,5-TRICHLOROBENZENE	ug/L	108-70-3			
	1,3,5-TRIMETHYLBENZENE	ug/L	108-67-8	<2.0	<2.0	<2.0
	1,3-DICHLOROBENZENE	ug/L	541-73-1	<2.0	<2.0	<2.0
	1,3-DICHLOROPROPANE	ug/L	142-28-9	<2.0	<2.0	<2.0
	1,4-DICHLOROBENZENE	ug/L	106-46-7	0.98	0.59	<2.0
	2,2,3-TRIMETHYLBUTANE	ug/L	464-06-2			
	2,2-DICHLOROPROPANE	ug/L	594-20-7	<2.0	<2.0	<2.0
	2,2-DIMETHYLPENTANE	ug/L	590-35-2			
	2,3-DIMETHYLPENTANE	ug/L	565-59-3			
	2,4-DIMETHYLPENTANE	ug/L	108-08-7			
	2-BUTANONE	ug/L	78-93-3			
	2-CHLOROTOLUENE	ug/L	95-49-8	<5.0	<5.0	<5.0
	2-HEXANONE	ug/L	591-78-6			
	2-METHYLHEXANE	ug/L	591-76-4			
	3,3-DIMETHYLPENTANE	ug/L	562-49-2			
	3-ETHYLPENTANE	ug/L	617-78-7			

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14
Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Key
Blue: >= BCL[1]

Group and Method	Analyte	Units	CAS	EC-14 Middle EC-14-20120427 4/27/2012	EC-14 Middle EC-14-20130424 4/24/2013	EC-14 Middle EC-14-20140617 6/17/2014
VOC [EPA 8260B]	3-METHYLHEXANE	ug/L	589-34-4			
	4-CHLOROTOLUENE	ug/L	106-43-4	<5.0	<5.0	<5.0
	4-METHYL-2-PENTANONE	ug/L	108-10-1			
	ACETONE	ug/L	67-64-1			
	BENZENE	ug/L	71-43-2	<2.0	<2.0	<2.0
	BROMOBENZENE	ug/L	108-86-1	<5.0	<5.0	<5.0
	BROMOCHLOROMETHANE	ug/L	74-97-5	<5.0	<5.0	<5.0
	BROMODICHLOROMETHANE	ug/L	75-27-4	<2.0	<2.0	<2.0
	BROMOFORM	ug/L	75-25-2	<5.0	<5.0	<5.0
	BROMOMETHANE	ug/L	74-83-9	<5.0	<5.0	<5.0
	CARBON DISULFIDE	ug/L	75-15-0			
	CARBON TETRACHLORIDE	ug/L	56-23-5	<1.0	<1.0	<1.0
	CHLOROBENZENE	ug/L	108-90-7	1.0	<2.0	0.52
	CHLOROETHANE	ug/L	75-00-3	<5.0	<5.0	<5.0
	CHLOROFORM	ug/L	67-66-3	<2.0	<2.0	<2.0
	CHLOROMETHANE	ug/L	74-87-3	<5.0	<5.0	<5.0
	CIS-1,2-DICHLOROETHENE	ug/L	156-59-2	<2.0	<2.0	<2.0
	CIS-1,3-DICHLOROPROPENE	ug/L	10061-01-5	<2.0	<2.0	<2.0
	DIBROMOCHLOROMETHANE	ug/L	124-48-1	<2.0	<2.0	<2.0
	DIBROMOMETHANE	ug/L	74-95-3	<2.0	<2.0	<2.0
	DICHLORODIFLUOROMETHANE	ug/L	75-71-8	<5.0	<5.0	<5.0
	DIMETHYL DISULFIDE	ug/L	624-92-0	<2.0	<2.0	<2.0
	ETHYLBENZENE	ug/L	100-41-4	<2.0	<2.0	<2.0
	HEXACHLOROBUTADIENE	ug/L	87-68-3	<5.0	<5.0UJ	<5.0
	ISOPROPYLBENZENE	ug/L	98-82-8	<2.0	<2.0	<2.0
	M,P-XYLENES	ug/L	179601-23-1	<2.0	<2.0	<2.0
	METHANETHIOL	ug/L	74-93-1			
	METHYLENE CHLORIDE	ug/L	75-09-2	<2.0	1.3J	<2.0
	METHYL-TERT-BUTYL ETHER	ug/L	1634-04-4			
	NAPHTHALENE	ug/L	91-20-3	<5.0	<5.0	<5.0
	N-BUTYLBENZENE	ug/L	104-51-8	<5.0	<5.0	<5.0
	N-HEPTANE	ug/L	142-82-5			
	NONANAL	ug/L	124-19-6			
	N-PROPYLBENZENE	ug/L	103-65-1	<2.0	<2.0	<2.0
	O-XYLENE	ug/L	95-47-6	<2.0	<2.0	<2.0
	P-ISOPROPYL TOLUENE	ug/L	99-87-6	<2.0	<2.0	<2.0
	SEC-BUTYLBENZENE	ug/L	135-98-8	<5.0	<5.0	<5.0
	STYRENE	ug/L	100-42-5	<2.0	<2.0	<2.0
	TERT- BUTYLBENZENE	ug/L	98-06-6	<5.0	<5.0	<5.0
	TETRACHLOROETHENE	ug/L	127-18-4	<2.0	<2.0	<2.0
	TOLUENE	ug/L	108-88-3	<2.0	<2.0	<2.0
	TRANS-1,2-DICHLOROETHENE	ug/L	156-60-5	<2.0	<2.0	<2.0
	TRANS-1,3-DICHLOROPROPENE	ug/L	10061-02-6	<2.0	<2.0	<2.0
	TRICHLOROETHENE	ug/L	79-01-6	<2.0	<2.0	<2.0
	TRICHLOROFLUOROMETHANE	ug/L	75-69-4	<5.0	<5.0	<5.0
	VINYL CHLORIDE	ug/L	75-01-4	<5.0	<5.0	<5.0

Table B-2. Summary of Laboratory Analytical Results for Groundwater Samples Collected from EC-09 and EC-14 Leach Beds and Phosphoric Acid Pond and Three Trenches
Former Stauffer Chemical Company, Olin Chlor Alkali Products, Henderson Nevada

Notes:

[1] Nevada Department of Environmental Protection (NDEP) Basic Comparison Level (BCL) for Residential Water (NDEP, January 2013)

Blue Highlight = Result exceeds the respective NDEP BCL for Residential Water

INORG_GC = Inorganic / General Chemistry Parameters

HYDROCARB/ALC = Hydrocarbons/Alcohols

OC PEST = Organochlorine Pesticides

OP PEST = Organophosporus Pesticides

ORGACIDS = Organic Acids

PCB = Polychlorinated Biphenyls

SVOC = Semi-Volatile Organic Compounds

VOC = Volatile Organic Compounds

< = Not detected at or above respective sample quantitation limit (SQL)

CAS = Chemical Abstracts Service (CAS) Registry number

mg/L = Milligrams per liter

ug/L = micrograms per liter

No. = Number

Freq. = Frequency

Min. = Minimum

Max. = Maximum

NDs = Non-detects

Detct. = Detections

J- = Estimated value. Data fell outside the QC limits and the reported value is an estimated quantity with a negative bias. QC exceedance was not sufficient to cause rejection of the data.

J+ = Estimated value. Data fell outside the QC limits and the reported value is an estimated quantity with a positive bias. QC exceedance was not sufficient to cause rejection of the data.

J = Estimated value. Data fell outside the QC limits and the reported value is an estimated quantity with an unknown bias. QC exceedance was not sufficient to cause rejection of the data.

UJ = Estimated value. Sample quantitation or detection limit is an estimated quantity due to poor accuracy or precision. Possible false negative results.