E&B NATURAL RESOURCES MANAGEMENT CORPORATION

1600 Norris Road • Bakersfield, California 93308
Phone: (661) 679-1700• Fax: (661) 679-1797

September 17, 2015

Mr. Jerry Wickham
Alameda County Environmental Health
Cleanup Oversight Programs
1131 Harbor Bay Parkway
Alameda, CA 94502

RE: RO#0003181 – G.I.G. Facility Work Plan

Mr. Wickham:

Enclosed is E&B Natural Resources Management Corporation's Work Plan prepared in accordance with its Voluntary Remedial Action Agreement RO#0003181 for the G.I.G. facility located at 8477 Patterson Pass Road in Livermore, California. The Work Plan will also be uploaded to the GeoTracker database for Site ID T10000007269.

"I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge."

Sincerely,

Jennifer Brady
Environmental Compliance Coordinator
E&B Natural Resources Management Corp.

SOIL EXCAVATION AND GROUNDWATER INVESTIGATION WORK PLAN

G.I.G. OIL PRODUCTION FACILITY
G.I.G. LEASE, LIVERMORE OIL FIELD
Section 7, T3S, R3E, MDB&M
8467 Patterson Pass Road, Livermore
Alameda County, California

Prepared for:

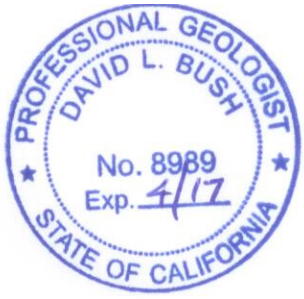
E&B Natural Resources Management Corporation
1600 Norris Road
Bakersfield, CA 93308

Prepared by:

Robert A. Booher Consulting
3287 Congressional Court
Fairfield, CA 94534

Jeff L. Monroe
Project Geologist

David L. Bush, PG 8989
Professional Geologist



September 16, 2015

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INTRODUCTION

This Soil Excavation and Groundwater Investigation Work Plan (Work Plan) was prepared by Robert A. Booher Consulting (RAB Consulting) for E&B Natural Resources Management Corporation (E&B) as requested by Alameda County Department of Environmental Health (ACDEH), case number RO-0003181. This Work Plan describes the proposed project activities to satisfy ACDEH's and San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) requirements, to further define and remediate crude oil impacted soils and assess the potential for groundwater impacts at the site. The site is located at E&B's Greenville Investment Group (G.I.G.) oil well production facility located at 8467 Patterson Pass Road, Livermore, in Section 7, T3S, R3E, MDB&M, Alameda County, California, as shown on Figure 1 and Figure 2.

BACKGROUND

The Livermore Oil Field is located approximately two miles east of Livermore and was discovered in 1967 when McCulloch Oil Corporation drilled and completed the G.I.G. No. 1 well. It is unique in that it is California's northernmost oil field. Initial production was approximately 397 barrels of oil per day (bopd). Field production peaked in May 1969 at 16,388 barrels, just over 528 bopd. Eventually 10 production wells were drilled along with a succession of various companies operating the Livermore field. E&B acquired the lease from USA Exploration and Production LLC on December 1, 2006, and currently produces approximately 32 bopd with six active wells.

The site is located in the eastern portion of Livermore Valley, elevation of the surrounding area is between 640 to 680 feet above mean sea level, along the western edge of the Diablo Range. Relatively shallow and surface soils are comprised of alluvial and fluvial deposits. Rock units exposed in the area are Tertiary to Quaternary age valley fill sediments, the Livermore Formation, the Tassajara Formation, as well as the Franciscan Formation and the Great Valley Sequence. These regional formations have been extensively folded and faulted. The Greenville Fault is the youngest tectonic feature in the area, truncating all other structures, and lies within a mile of the site to the east. The Las Positas fault is within a 1.2 miles to the southwest. The Corral Hollow Fault is located approximately 2 miles to the east of the site.

Initial groundwater or saturated zone is anticipated to be less than 60 feet below grade, and there is a potential for shallower perched groundwater zones that most likely trend to the southwest. The entire floor of the Livermore Valley overlies groundwater bearing materials, including continental deposits from alluvial fans, valley fill deposits, and outwash plains. Domestic wells range in depths from 100-350 feet bgs, and municipal or irrigation wells range in depths of 315-810 feet bgs.

In late March 2015, E&B decommissioned and removed a 250 barrel stock tank at its G.I.G. oil well production facility. During this process E&B noticed that the stock tank, which had been installed by E&B's predecessor, appeared to have leaked. E&B then proceeded to excavate stained areas initially thought to be limited to near surface soils. The

former tank location was located near the southeast corner of the fenced facility at approximate latitude 37.693548, longitude -121.689431 (NAD 83, Figure 2). Photographs of the excavation are attached to this Work Plan as Attachment A. Since the removal of the stock tank, an above ground 300 barrel wash tank and 100 barrel produced water tank have also been decommissioned and removed.

An initial soil sample was collected by E&B from one (1) foot beneath the stock tank after tank removal on March 30, 2015. Subsequent samples were collected when visual observation during the excavation indicated that soils were impacted by residual oil. The excavation was halted at the end of May at the request of ACDEH pending a Work Plan to address further investigation. The current excavation measures approximately 8 feet below ground surface (bgs) at the greatest depth (western end), approximately 20 feet in width, and approximately 40 feet in length. The excavation tapers from the deepest portion of the excavation on the west end, upwards to subgrade at the east end.

Additional soil samples were collected from the excavation during April and May 2015. Samples were collected with a backhoe at 5 feet bgs and 12 feet bgs from the western end of the excavation. A sample was also collected at 7 feet bgs from beneath the center of the former stock tank. Soil samples were analyzed for CAM 17 metals by EPA method 6010B, Total Petroleum Hydrocarbons (TPH) by EPA method 8015, volatile organic compounds (VOCs) by EPA method 8260B, Reactivity, Ignitability by EPA method 1030, and corrosivity by EPA method 9040. The soil sample at 7 feet bgs collected from beneath the stock tank on May 29, 2015, was additionally analyzed for semi-volatile compounds by EPA method 8270. Analysis of the verification soil samples collected after the initial excavation indicates residual petroleum hydrocarbons remain in the excavation sidewalls and bottom. Visual evidence also suggests residual petroleum hydrocarbon impact continues outside the fence towards the south. Analytical reports from soil samples collected are attached to this Work Plan in Attachment B. Some of the soil excavated was used as secondary containment berms on the lease, and the balance was profiled and approved to transport as nonhazardous to Potrero Hills Landfill in Suisun, California.

SCOPE OF WORK

The purpose of this Work Plan is to present E&B's proposal to further assess and remediate petroleum hydrocarbon impacted soils resulting from the leaking stock tank. This Work Plan also describes protocols to determine if shallow groundwater has been impacted. Additionally, this Work Plan describes methods used to characterize waste streams for appropriate handling and disposal during excavation and ground investigation activities.

TASK 1 – PERMITTING AND PRECONSTRUCTION ACTIVITES

Upon receipt of the Work Plan approval from ACDEH, a drilling permit for soil boring activities and a grading permit will be obtained from the appropriate Alameda County Departments for the activities described in this Work Plan. An access agreement as requested by the surface owner will also need to be executed prior to conducting activities

outside the fenced area. Prior to beginning work on site, personnel will be required to review the Health and Safety Plan found in Attachment C. ACDEH will be notified a minimum of 48 hours in advance of excavation and sampling activities.

TASK 2 – EXCAVATION AND SAMPLING ACTIVITIES

E&B proposes to continue excavation activities in the vicinity of the stock tank (see Figure 2). Excavation activities will continue to remove residual oil impacted soils extending from the former stock tank area. If visual and organic vapor monitoring indicates the presence of residual contaminants, then the excavation will continue until confirmation sampling indicates impacted soils have been removed to the extent physically feasible, or until SFBRWQCB's risk-based environmental screening levels for various contaminates are acceptable for leaving soils in place. Sampling of soils from the final excavation sidewalls and bottom will determine the effectiveness of the excavation activities.

Excavated soils will be stockpiled on and covered with plastic sheeting (visqueen). A discrete stockpile sample will be collected for approximately every 25 cubic yards (cy) of soil removed. The laboratory will then composite every four (4) stockpile samples in the laboratory for one analysis representing approximately every 100 cy of stockpiled material. If the over burden during additional excavation activities is suspected to be "clean", then these soils will be segregated and sampled discretely every 20 cy for possible reuse.

Excavation sidewall and bottom confirmation soil samples will be collected directly from the excavator or backhoe bucket using pre-cleaned stainless steel sample tubes. Sample tubes will be pushed into the soil until zero head space has been achieved, and the ends of the tubes will be covered with aluminum foil or Teflon sheeting prior to placing plastic end caps on both ends. Each sample will be labeled and the location will be measured in depth and mapped as to where it was collected within the excavation.

Though not anticipated, if water is present during the proposed excavation activities, grab water samples will also be collected using the appropriate laboratory supplied bottles with the appropriate preservatives for analysis requirements.

Pending laboratory results, stockpiles will be profiled for appropriate disposal under manifest to a disposal facility.

All samples collected will be labeled, entered on a chain-of-custody form, placed in a cooler with either ice or frozen "blue ice" prior to transporting samples under a Chain-of-Custody form to and analyzed by a California Environmental Protection Agency (EPA) certified laboratory for Federal Resource Conservation and Recovery Act (RCRA) and California (Title 22) Hazardous Waste Criteria.

Excavation photographs will be taken to document the work prior to, during and post excavation activities.

TASK 3 – ANALYTICAL REVIEW, CHARACTERIZATION AND DISPOSAL

Confirmation soil samples collected during excavation activities will be analyzed for CAM 17 metals (EPA 6010), volatile organic compounds (EPA 8260B), semi-volatiles including PCBs (EPA 8270C), total recoverable hydrocarbons (EPA 8015). Additional analytical tests may be required for disposal purposes or if suspect material is encountered. Though not anticipated, if groundwater is encountered in the excavation, final excavation confirmation samples will include water samples from the excavation, and may be additionally analyzed for general minerals (electrical conductivity, chlorides, boron, sodium, sulfate, and pH).

Sample analytical reports will be submitted to ACDEH for review and approval prior to backfilling activities and stockpile disposal or reuse. Waste deemed as hazardous would be transported under hazardous waste manifests to a Class I facility such as the Waste Management Kettlemen Hills facility or the closest cost effective Class I facility. Alternatively nonhazardous soils will be profiled for disposal at the appropriate Class 2 or Class 3 landfills. Non-hazardous materials transported for disposal, will be transported under a non-hazardous waste manifest or Bills of Laden. All manifests or other transport and disposal documents will be included in final reports documenting implementation of this Work Plan.

TASK 4 – EXCAVATION BACKFILL ACTIVITIES

The excavation will be backfilled in six (6) to eight (8) inch lifts and compacted to a minimum of 85% relative compaction with clean imported material. The imported material will be native soils generated from grading projects that require the cut and removal of native soils from various E&B projects in the area, or imported from a quarry. No recycled materials, soil from existing well pads or previously disturbed soils with possible hydrocarbon impact will be used. Photographs will be taken to document backfill activities. There will be no engineered compaction tests completed unless expressly directed by the Client or regulatory agencies.

TASK 5 – GROUNDWATER INVESTIGATION

If groundwater is not encountered in the excavation during the soil remediation activities, the excavation will be backfilled to grade, and the groundwater investigation will commence. A minimum of one boring will be drilled to groundwater where the former stock tank was located. If the soil sample collected in the vadose and/or smear zone above the saturated zone is suspect of hydrocarbon impact via monitoring with use of a Photo Ion Detector (PID) or Organic Vapor Meter (OVM), then additional borings may be performed stepping out from the original location another 20 to 50 feet, and a two-inch monitoring well may be installed.

We will direct our subcontract drilling company to advance one (1) exploratory soil probes (or borings) to reach the first encountered groundwater aquifer or perched zone (estimated

to be 30-60 feet bgs) to evaluate the potential for residual contamination. Upon encountering shallow groundwater, we will collect a grab groundwater sample from the probe or boring.

Soil samples will be collected from subsurface soils continuously if direct push methodology is used, or every five (5) feet using a split spoon sampler if an auger system is used. Soil samples and cuttings will be field screened with a PID or OVM, logged, and selected samples will be transported to the laboratory and analyzed for analysis previously mentioned. Lithologic logs will be prepared during the field work by our California State Professional Geologist, who will also supervise the drilling and sample collection activities.

Upon encountering shallow groundwater, a temporary 1-inch diameter PVC well screen will be inserted into each probe or boring to allow for groundwater accumulation and to prevent formation collapse. Groundwater samples will be decanted into labeled, laboratory supplied bottles appropriate for the required analysis as described in a previous section of this Work Plan. Sample containers will be logged on a Chain-of-Custody form and placed in an ice chest containing frozen "blue ice" for transport to our subcontracted California State Certified analytical laboratory.

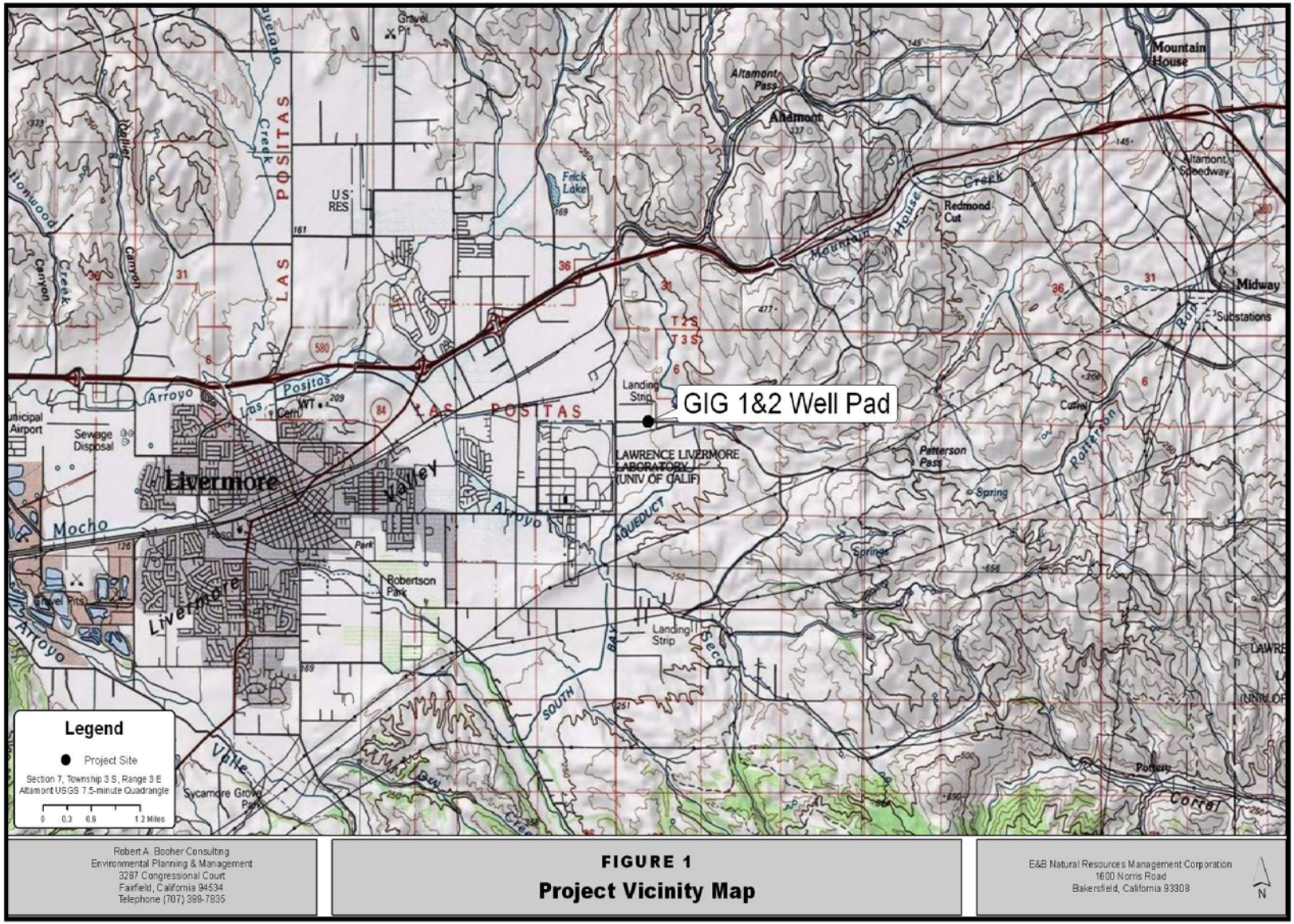
Sampling equipment will be decontaminated by steam cleaning and/or washing with phosphate-free detergent and rinsing with potable water between each use.

Upon completion of groundwater sampling, the soil probe (or boring) holes will be back filled with neat cement to within 6 inches of the surface. The upper 6-inches of the probe holes will be patched with asphalt, cement or soil to match the existing surface.

TASK 6 – SOIL AND GROUNDWATER INVESTIGATION REPORT PREPARATION

Upon completion of Tasks 1 through 5, a Soil Excavation and Groundwater Investigation Report will be prepared by RAB Consulting's California State Professional Geologist and submitted to ACDEH. The report will include a description of field procedures, photographs (site work, waste removal, pre and post excavation and backfill activities), results of analytical testing, site maps with relevant investigation and excavation sampling locations, measurements and depths with excavation soil logs, drill lithologic logs, and waste transport and disposal documentation. Final report will include our conclusions and recommendations.

FIGURES



Robert A. Booher Consulting
Environmental Planning & Management
3287 Congressional Court
Fairfield, California 94534
Telephone (707) 399-7835

FIGURE 1

Project Vicinity Map

E&B Natural Resources Management Corporation
1600 Norris Road
Bakersfield, California 93308

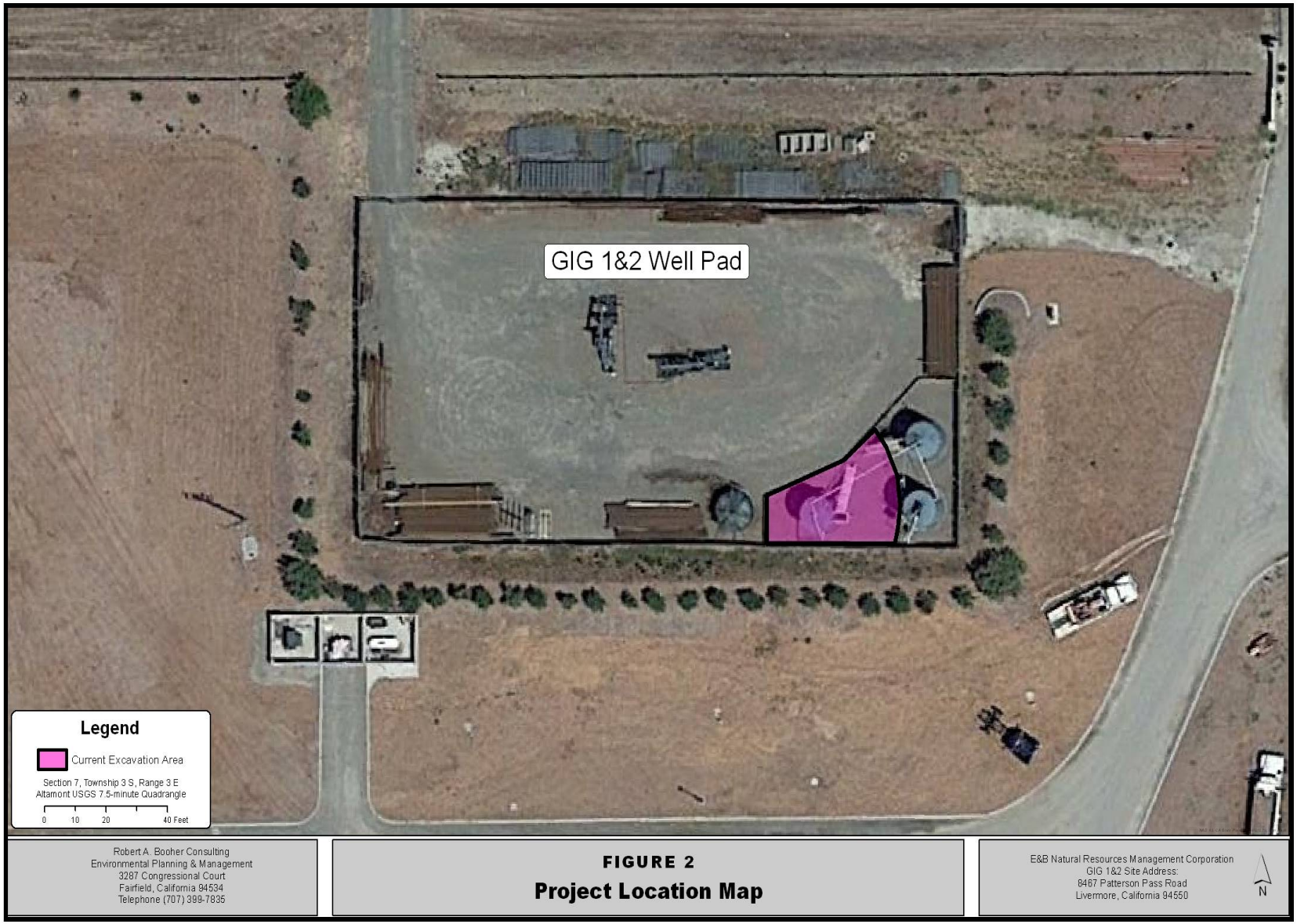


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FIGURE 2

Project Location Map

E&B Natural Resources Management Corporation
GIG 1&2 Site Address:
8467 Patterson Pass Road
Livermore, California 94550

ATTACHMENT A:
Site Photographs

Photograph 1:
Facing west at the excavation under the former produced water tank location.

Photograph 2:
Facing southwest from the northeast corner of the former production tank compound.

ATTACHMENT B
Laboratory Analytical Reports

ZALCO LABORATORIES, INC.
Analytical & Consulting Services

4309 Armour Avenue
Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1503333**
3000 James Rd	Project #:	Reported: 04/07/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 03/31/2015 13:55

Lab Sample ID: **1503333-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample	Date Collected: 3/30/2015 11:00:00AM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Corrosivity			*22 CCR Limit*						
pH	7.160		*2 or less, 12.5 or greater*	pH Units		SW846 9040C	4/2/15	4/2/15	HG
CAM, Ignitability of Solids									
Screen Test, Ignitability	Non-Flammable Under Test Conditions			N/A		SW-846 EPA 1030	4/1/15	4/1/15	JAH
Burn Rate, Ignitability	Non-Flammable Under Test Conditions			mm/sec		SW-846 EPA 1030	4/1/15	4/1/15	JAH
CAM, Reactivity									
Reactive Sulfide	21	10		mg/kg		SW 7.3.4.2	4/2/15	4/2/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<10	10	*500*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Arsenic	<1.0	1.0	*500*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Barium	120	5.0	*10000*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Beryllium	<0.50	0.50	*75*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Cadmium	<0.50	0.50	*100*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Chromium	16	2.5	*2500*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Cobalt	<5.0	5.0	*8000*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Copper	9.5	2.5	*2500*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Lead	19	2.5	*1000*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Mercury	<0.050	0.050	*20*	mg/kg		SW846 7471A	4/2/15	4/2/15	SS
Molybdenum	<5.0	5.0	*3500*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Nickel	36	2.5	*2000*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Selenium	<2.5	2.5	*100*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Silver	<1.0	1.0	*500*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Thallium	<25	25	*700*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Vanadium	17	5.0	*2400*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Zinc	50	2.5	*5000*	mg/kg		SW846 6010B	4/1/15	4/1/15	SS
Volatile Organic Compounds									
Ethyl Acetate	<50.0	50.0		ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Acetone	<50.0	50.0		ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Acrolein	<20.0	20.0		ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Acrylonitrile	<20.0	20.0		ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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Client Sample ID: GIG Soil Sample	Date Collected: 3/30/2015 11:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Benzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromochloromethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromodichloromethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromoform	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Bromomethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Butanone	<50.0	50.0	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
tert-Butyl alcohol	<50.0	50.0	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
n-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
sec-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
tert-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Carbon disulfide	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Carbon Tetrachloride	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Chloroethyl vinyl ether	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chloroform	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Chloromethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Chlorotoluene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
4-Chlorotoluene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Dibromochloromethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dibromoethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Dibromomethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,3-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,4-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Dichlorodifluoromethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1-Dichloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dichloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
cis-1,2-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
trans-1,2-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,3-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
2,2-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Di-isopropyl ether	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
cis-1,3-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
trans-1,3-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Ethyl tert-Butyl Ether	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Ethyl Benzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Hexachlorobutadiene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
2-Hexanone	<50.0	50.0	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Iodomethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Isopropylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
4-Isopropyltoluene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Methylene Chloride	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
4-Methyl-2-pentanone	<50.0	50.0	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Naphthalene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
n-Propylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Styrene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Tert-Amyl Methyl Ether	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Tetrachloroethene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Toluene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,3-Trichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,4-Trichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,1-Trichloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,2-Trichloroethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Trichloroethene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Trichlorofluoromethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,3-Trichloropropane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,2,4-Trimethylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,3,5-Trimethylbenzene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Vinyl acetate	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
Vinyl chloride	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
o-Xylene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

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Bakersfield, California 93308

(661) 395-0539
FAX (661) 395-3069

E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1503333**
3000 James Rd	Project #:	Reported: 04/07/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 03/31/2015 13:55

Lab Sample ID: **1503333-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample	Date Collected: 3/30/2015 11:00:00AM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
Xylenes, total	0.00		ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
m,p-Xylene	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	5.00	ug/kg		SW846 8260B	3/31/15	3/31/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag	
1,2-Dichloroethane-d4	101	72-154		3/31/15 15:50
Toluene-d8	81.6	70-125		3/31/15 15:50
4-Bromofluorobenzene	117	52-153		3/31/15 15:50

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC. **CHAIN OF CUSTODY, ID#** 1503333

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

Page ____ of ____
Zalco Lab # ____
Client PO # ____
PROJECT ID: ____
QUOTE ID: ____

REPORT INFO	**INVOICE INFO**
Client: E&B Nat. Resources	Invoice To: Same as Client ☒
Address: 3000 James Rd.	Address:
City, State, Zip: Bakersfield 93308	City, State, Zip:
Attention: Jennifer Brady	Attention:
Phone: Results ☐	Phone:
Fax: Results ☐	Fax:
Email: Results ☒	Email:

SAMPLED BY: Sherri Johnson **EMPLOYED BY:** E&B

Sample No.*	Sample Description	Sample Date	Sample Time	Type*	# OF CONTAINERS	CAM17	VOC	PH	Ignitability	Reactive Sulfide				TEMPERATURE (C°)
1	G&G SOIL SAMPLE	3/30/15	1100	S	2	X	X	X	X	X				

COMMENTS:

Turnaround Time:
Routine ____ working days ☐
Rush By 5 working days

Send Copy to State of CA? Yes ☐ No ☐
Attention To: ____
Send Copy to County? Yes ☐ No ☐
County ____

RUSH!

* Composite the 2 containers *

Logged-In ☒ Subbed ☐ Printed ☐
Scanned ☐ Short Hold Time ☐

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
[signature]	Jennifer Brady	E&B Nat. Res	3/31	1355	[signature] 2.6	K Springman

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater

*Sample No.: FOR OFFICE USE ONLY

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E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1505100**
3000 James Rd	Project #:	Reported: 05/14/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/08/2015 09:45

Lab Sample ID: **1505100-01**	Collected By: Mike Smith
Client Sample ID: GIG Soil Sample	Date Collected: 4/30/2015 12:51:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Corrosivity			*22 CCR Limit*						
pH	7.480		*2 or less, 12.5 or greater*	pH Units	I-02	SW846 9040C	5/13/15	5/13/15	MRF
CAM, Ignitability of Solids									
Screen Test, Ignitability	Non-Flammable Under Test Conditions			N/A		SW-846 EPA 1030	5/8/15	5/8/15	JAH
Burn Rate, Ignitability	Non-Flammable Under Test Conditions			mm/sec		SW-846 EPA 1030	5/8/15	5/8/15	JAH
CAM, Reactivity									
Reactive Sulfide	<10	10		mg/kg	I-02	SW 7.3.4.2	5/13/15	5/13/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<10	10	*500*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Arsenic	<1.0	1.0	*500*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Barium	220	5.0	*10000*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Beryllium	<0.50	0.50	*75*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Cadmium	<0.50	0.50	*100*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Chromium	14	2.5	*2500*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Cobalt	<5.0	5.0	*8000*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Copper	12	2.5	*2500*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Lead	6.4	2.5	*1000*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Mercury	0.052	0.050	*20*	mg/kg		SW846 7471A	5/12/15	5/13/15	SS
Molybdenum	<5.0	5.0	*3500*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Nickel	26	2.5	*2000*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Selenium	<2.5	2.5	*100*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Silver	<1.0	1.0	*500*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Thallium	<25	25	*700*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Vanadium	19	5.0	*2400*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Zinc	18	2.5	*5000*	mg/kg		SW846 6010B	5/11/15	5/12/15	SS
Petroleum Hydrocarbons									
Diesel Range Hydrocarbons	3070	250		mg/kg		SW846 8015B	5/11/15	5/12/15	JMM
Gasoline Range Hydrocarbons	0.731	0.250		mg/kg		SW846 8015B	5/12/15	5/12/15	HLP
Motor Oil Range Hydrocarbons	5670	625		mg/kg		SW846 8015B	5/11/15	5/12/15	JMM

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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FAX (661) 395-3069

E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1505100**
3000 James Rd	Project #:	Reported: 05/14/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/08/2015 09:45

Lab Sample ID: **1505100-01**	Collected By: Mike Smith
Client Sample ID: GIG Soil Sample	Date Collected: 4/30/2015 12:51:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Petroleum Hydrocarbons								
Surrogates	**% Recovery**	**Recovery Limits**	**Flag**					
a,a,a-Trifluorotoluene	79.8	24-120					5/12/15 10:54	
Volatile Organic Compounds								
Ethyl Acetate	<50.0	50.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Acetone	<50.0	50.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Acrolein	<20.0	20.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Acrylonitrile	<20.0	20.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Benzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Bromobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Bromochloromethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Bromodichloromethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Bromoform	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Bromomethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
2-Butanone	<50.0	50.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
tert-Butyl alcohol	<50.0	50.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
n-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
sec-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
tert-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Carbon disulfide	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Carbon Tetrachloride	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Chlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Chloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
2-Chloroethyl vinyl ether	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Chloroform	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Chloromethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
2-Chlorotoluene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
4-Chlorotoluene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Dibromochloromethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2-Dibromoethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Dibromomethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,3-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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Bakersfield, California 93308

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FAX (661) 395-3069

E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1505100**
3000 James Rd	Project #:	Reported: 05/14/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/08/2015 09:45

Lab Sample ID: **1505100-01**	Collected By: Mike Smith
Client Sample ID: GIG Soil Sample	Date Collected: 4/30/2015 12:51:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,4-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Dichlorodifluoromethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1-Dichloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2-Dichloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
cis-1,2-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
trans-1,2-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,3-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
2,2-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Di-isopropyl ether	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
cis-1,3-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
trans-1,3-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Ethyl tert-Butyl Ether	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Ethyl Benzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Hexachlorobutadiene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
2-Hexanone	<50.0	50.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Iodomethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Isopropylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
4-Isopropyltoluene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Methylene Chloride	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
4-Methyl-2-pentanone	<50.0	50.0	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Naphthalene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
n-Propylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Styrene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Tert-Amyl Methyl Ether	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Tetrachloroethene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Toluene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2,3-Trichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2,4-Trichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1,1-Trichloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1505100**
3000 James Rd	Project #:	Reported: 05/14/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/08/2015 09:45

Lab Sample ID: **1505100-01**	Collected By: Mike Smith
Client Sample ID: GIG Soil Sample	Date Collected: 4/30/2015 12:51:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,1,2-Trichloroethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Trichloroethene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Trichlorofluoromethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2,3-Trichloropropane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,2,4-Trimethylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,3,5-Trimethylbenzene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Vinyl acetate	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Vinyl chloride	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
o-Xylene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
Xylenes, total	0.00		ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
m,p-Xylene	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	5.00	ug/kg		SW846 8260B	5/12/15	5/12/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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Page ______ of ______

Zalco Lab # ______

Client PO # ______

PROJECT ID: ______

QUOTE ID: ______

REPORT INFO		**INVOICE INFO**	
Client:	E&B Natural Resources	Invoice To: Same as Client	X
Address:	1600 Norris Rd	Address:	
City, State, Zip:	Bakersfield	City, State, Zip:	
Attention:	Jennifer Brady	Attention:	
Phone: Results ❑		Phone:	
Fax: Results ❑		Fax:	
Email: Results ☒	jbrady@ebresources.com	Email:	

SAMPLED BY: Mike Smith **EMPLOYED BY:** E&B

ANALYSIS: CAM 17; pH; reactive sulfide; ignitability; VOC; TPH

Sample No. *	Sample Description	Sample Date	Sample Time	Type*	# OF CONTAINERS	CAM 17	pH	reactive sulfide	ignitability	VOC	TPH			TEMPERATURE (C°)
1	G/G soil sample	4/21/15	1251	S	1	X	X	X	X	X	X			22.4

COMMENTS:

Turnaround Time:
Routine 10 working days X
Rush By ______ working days

Send Copy to State of CA? Yes ❑ No ❑

Attention To: ______

Send Copy to County? Yes ❑ No ❑

County ______

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Jennifer Brady	Jennifer Brady	E&B	5/8/15	0945	[signature]	K Springman

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater

*Sample No.: FOR OFFICE USE ONLY

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E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1506093**
3000 James Rd	Project #:	Reported: 06/15/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 06/05/2015 12:40

Lab Sample ID: **1506093-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 7'	Date Collected: 5/29/2015 2:00:00PM

Analyte	Results	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Corrosivity			*22 CCR Limit*						
pH	8.780		*2 or less, 12.5 or greater*	pH Units		SW846 9040C	6/11/15	6/11/15	SS
CAM, Ignitability of Solids									
Screen Test, Ignitability	Non-Flammable Under Test Conditions			N/A		SW-846 EPA 1030	6/5/15	6/5/15	RAM
Burn Rate, Ignitability	Non-Flammable Under Test Conditions			mm/sec		SW-846 EPA 1030	6/5/15	6/5/15	RAM
CAM, Reactivity									
Reactive Sulfide	42	10		mg/kg	I-02	SW 7.3.4.2	6/10/15	6/10/15	SAM
CAM, Toxicity (17 Metals)			*TTLC Limits*						
Antimony	<10	10	*500*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Arsenic	1.2	1.0	*500*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Barium	670	5.0	*10000*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Beryllium	0.73	0.50	*75*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Cadmium	<0.50	0.50	*100*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Chromium	45	2.5	*2500*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Cobalt	15	5.0	*8000*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Copper	36	2.5	*2500*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Lead	16	2.5	*1000*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Mercury	<0.050	0.050	*20*	mg/kg		SW846 7471A	6/8/15	6/9/15	SS
Molybdenum	<5.0	5.0	*3500*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Nickel	100	2.5	*2000*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Selenium	<2.5	2.5	*100*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Silver	<1.0	1.0	*500*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Thallium	<25	25	*700*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Vanadium	50	5.0	*2400*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Zinc	93	2.5	*5000*	mg/kg		SW846 6010B	6/9/15	6/11/15	SS
Petroleum Hydrocarbons									
Gasoline Range Hydrocarbons	<0.250	0.250		mg/kg		SW846 8015B	6/9/15	6/9/15	HLP

Surrogates	% Recovery	Recovery Limits	Flag

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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3000 James Rd	Project #:	Reported: 06/15/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 06/05/2015 12:40

Lab Sample ID: **1506093-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 7'	Date Collected: 5/29/2015 2:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Petroleum Hydrocarbons								
Surrogates	**% Recovery**	**Recovery Limits**	**Flag**					
a,a,a-Trifluorotoluene	110	24-120					6/9/15 14:20	
Volatile Organic Compounds								
Ethyl Acetate	<50.0	50.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Acetone	<50.0	50.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Acrolein	<20.0	20.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Acrylonitrile	<20.0	20.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Benzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Bromobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Bromochloromethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Bromodichloromethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Bromoform	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Bromomethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
2-Butanone	<50.0	50.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
tert-Butyl alcohol	<50.0	50.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
n-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
sec-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
tert-Butylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Carbon disulfide	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Carbon Tetrachloride	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Chlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Chloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
2-Chloroethyl vinyl ether	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Chloroform	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Chloromethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
2-Chlorotoluene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
4-Chlorotoluene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Dibromochloromethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2-Dibromoethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Dibromomethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,3-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP

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Lab Sample ID: **1506093-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 7'	Date Collected: 5/29/2015 2:00:00PM

Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,4-Dichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Dichlorodifluoromethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1-Dichloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2-Dichloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
cis-1,2-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
trans-1,2-Dichloroethene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,3-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
2,2-Dichloropropane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Di-isopropyl ether	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
cis-1,3-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
trans-1,3-Dichloropropene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Ethyl tert-Butyl Ether	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Ethyl Benzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Hexachlorobutadiene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
2-Hexanone	<50.0	50.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Iodomethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Isopropylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
4-Isopropyltoluene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Methylene Chloride	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
4-Methyl-2-pentanone	<50.0	50.0	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Methyl tert-Butyl Ether	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Naphthalene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
n-Propylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Styrene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Tert-Amyl Methyl Ether	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Tetrachloroethene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Toluene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2,3-Trichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2,4-Trichlorobenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1,1-Trichloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP

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Analyte	Results	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds								
1,1,2-Trichloroethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Trichloroethene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Trichlorofluoromethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2,3-Trichloropropane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,2,4-Trimethylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,3,5-Trimethylbenzene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Vinyl acetate	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Vinyl chloride	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
o-Xylene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
Xylenes, total	0.00		ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
m,p-Xylene	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	5.00	ug/kg		SW846 8260B	6/8/15	6/8/15	HLP

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Certificate of Analysis

Sample ID: A5F0768-01
Sampled By: Client
Sample Description: 1506093-01

Sample Date - Time: 05/29/15 - 14:00
Matrix: Solid
Sample Type: Other

BSK Associates Fresno

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics (Standard List) by GC-MS									
1,2,4-Trichlorobenzene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2,4,6-Trichlorophenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2,4-Dichlorophenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2,4-Dimethylphenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2,4-Dinitrophenol	EPA 8270C	ND	2000	ug/kg	20	A506366	06/09/15	06/11/15	
2,4-Dinitrotoluene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2,6-Dinitrotoluene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2-Chloronaphthalene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2-Chlorophenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
2-Nitrophenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
3,3-Dichlorobenzidine	EPA 8270C	ND	10000	ug/kg	20	A506366	06/09/15	06/11/15	
4,6-Dinitro-2-methylphenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
4-Bromophenyl phenyl ether	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
4-Chloro-3-methylphenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
4-Chlorophenyl phenyl ether	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
4-Nitrophenol	EPA 8270C	ND	2000	ug/kg	20	A506366	06/09/15	06/11/15	
Acenaphthene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Acenaphthylene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Anthracene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Benzo(a)anthracene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Benzo(a)pyrene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Benzo(b)fluoranthene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Benzo(g,h,i)perylene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	CV0.0
Benzo(k)fluoranthene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Bis(2-chloroethoxy)methane	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Bis(2-chloroethyl) ether	EPA 8270C	ND	2000	ug/kg	20	A506366	06/09/15	06/11/15	
Bis(2-chloroisopropyl) ether	EPA 8270C	ND	2000	ug/kg	20	A506366	06/09/15	06/11/15	
Bis(2-ethylhexyl) phthalate	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Butyl benzyl phthalate	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Chrysene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Dibenzo(a,h)anthracene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	CV0.0
Diethyl phthalate	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Dimethyl phthalate	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Di-n-butyl phthalate	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Di-n-octyl phthalate	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Fluoranthene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Fluorene	EPA 8270C	**220**	100	ug/kg	20	A506366	06/09/15	06/11/15	
Hexachlorobenzene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Hexachlorobutadiene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	CV0.0
Indeno(1,2,3-cd)pyrene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	CV0.0
Isophorone	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Naphthalene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Nitrobenzene	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	

Certificate of Analysis

Sample ID: A5F0768-01
Sampled By: Client
Sample Description: 1506093-01

Sample Date - Time: 05/29/15 - 14:00
Matrix: Solid
Sample Type: Other

Organics

Analyte	Method	Result	RL	Units	RL Mult	Batch	Prepared	Analyzed	Qual
Semi-Volatile Organics (Standard List) by GC-MS									
N-Nitrosodi-n-propylamine (NDPA)	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
N-Nitrosodiphenylamine (as DPA)	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Pentachlorophenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Phenanthrene	EPA 8270C	**430**	100	ug/kg	50	A506366	06/09/15	06/11/15	
Phenol	EPA 8270C	ND	1000	ug/kg	20	A506366	06/09/15	06/11/15	
Pyrene	EPA 8270C	ND	100	ug/kg	20	A506366	06/09/15	06/11/15	
Surrogate: 2,4,6-Tribromophenol	EPA 8270C	86 %	*Acceptable range: 41-200 %*						
Surrogate: 2-Fluorobiphenyl	EPA 8270C	84 %	*Acceptable range: 46-144 %*						
Surrogate: 2-Fluorophenol	EPA 8270C	66 %	*Acceptable range: 30-155 %*						
Surrogate: Nitrobenzene-d5	EPA 8270C	113 %	*Acceptable range: 30-149 %*						
Surrogate: Phenol-d6	EPA 8270C	75 %	*Acceptable range: 40-162 %*						
Surrogate: p-Terphenyl-d14	EPA 8270C	95 %	*Acceptable range: 45-161 %*						

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CHAIN OF CUSTODY, ID# 150e093

RUSH!

Page 1 of 1

Zalco Lab # 150e093

Client PO #

PROJECT ID:

QUOTE ID:

REPORT INFO		INVOICE INFO	
Client:	E:B Nat. Resources	Invoice To: Same as Client ☒	
Address:	3000 James Rd.	Address:	
City, State, Zip:	Bak. CA 93308	City, State, Zip:	
Attention:	Jennifer Brady	Attention:	
Phone: Results ☐		Phone:	
Fax: Results ☐		Fax:	
Email: Results ☒	jbrady@ebnaturalresources.com	Email:	

SAMPLED BY: Sherri Johnson **EMPLOYED BY:** E:B

Sample No.*	Sample Description	Sample Date	Sample Time	Type*	# OF CONTAINERS	ANALYSIS: CAM 17	VOC 8260B	S-VOC 8270C	TPH	DH	Reactive sulfide	Ignitability	TEMPERATURE (C°)
	G.W. soil sample @ 7'	5/29/15	1400	S	3	X	X	X	X	X	X	X	

COMMENTS:

Turnaround Time:
Routine _____ working days ☐
Rush By 5 working days

Send Copy to State of CA?
Yes ☐ No ☐

Attention To:

Send Copy to County?
Yes ☐ No ☐

County

Pls composite before analyzing

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Jennifer Brady	Jennifer Brady	E:B	6/5/15	1240		F Johnson

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater

*Sample No.: FOR OFFICE USE ONLY

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E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1505302**
3000 James Rd	Project #:	Reported: 06/03/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/21/2015 15:25

Lab Sample ID: **1505302-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 12	Date Collected: 5/20/2015 2:00:00PM

Analyte	Results	MDL	PQL		Units	Flag	Method	Date Prepared	Date Analyzed	Init.
CAM, Corrosivity				*22 CCR Limit*						
pH	9.690			*2 or less, 12.5 or greater*	pH Units	I-02	SW846 9040C	6/1/15	6/1/15	MRF
CAM, Ignitability of Solids										
Screen Test, Ignitability	Non-Flammable Under Test Conditions				N/A		SW-846 EPA 1030	5/21/15	5/22/15	JAH
Burn Rate, Ignitability	Non-Flammable Under Test Conditions				mm/sec		SW-846 EPA 1030	5/21/15	5/22/15	JAH
CAM, Reactivity										
Reactive Sulfide	<10		10		mg/kg	I-02	SW 7.3.4.2	5/28/15	5/28/15	SAM
CAM, Toxicity (17 Metals)				*TTLC Limits*						
Antimony	<10		10	*500*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Arsenic	<1.0		1.0	*500*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Barium	600		5.0	*10000*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Beryllium	<0.50		0.50	*75*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Cadmium	<0.50		0.50	*100*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Chromium	14		2.5	*2500*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Cobalt	5.5		5.0	*8000*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Copper	13		2.5	*2500*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Lead	5.2		2.5	*1000*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Mercury	<0.050		0.050	*20*	mg/kg		SW846 7471A	5/22/15	5/22/15	SS
Molybdenum	<5.0		5.0	*3500*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Nickel	28		2.5	*2000*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Selenium	<2.5		2.5	*100*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Silver	<1.0		1.0	*500*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Thallium	<25		25	*700*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Vanadium	23		5.0	*2400*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Zinc	23		2.5	*5000*	mg/kg		SW846 6010B	5/21/15	5/27/15	SS
Petroleum Hydrocarbons										
Diesel Range Hydrocarbons	693	30.0	100		mg/kg		SW846 8015B	6/1/15	6/2/15	BIG
Gasoline Range Hydrocarbons	0.555	0.095	0.250		mg/kg		SW846 8015B	5/29/15	5/29/15	HLP
Motor Oil Range Hydrocarbons	657		250		mg/kg		SW846 8015B	6/1/15	6/2/15	BIG

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E & B Natural Resources Corp.	Project: Master-4Q2013	Work Order No.: **1505302**
3000 James Rd	Project #:	Reported: 06/03/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/21/2015 15:25

Lab Sample ID: **1505302-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 12	Date Collected: 5/20/2015 2:00:00PM

Analyte	Results	MDL	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Petroleum Hydrocarbons									
Surrogates		**% Recovery**	**Recovery Limits**	**Flag**					
a,a,a-Trifluorotoluene		115	24-120					5/29/15 8:57	
Volatile Organic Compounds									
Ethyl Acetate	<50.0		50.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Acetone	<50.0	10.8	50.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Acrolein	<20.0	4.87	20.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Acrylonitrile	<20.0	1.14	20.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Benzene	<5.00	0.370	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Bromobenzene	<5.00	0.440	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Bromochloromethane	<5.00	0.600	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Bromodichloromethane	<5.00	0.370	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Bromoform	<5.00	0.300	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Bromomethane	<5.00	3.32	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
2-Butanone	<50.0	32.0	50.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
tert-Butyl alcohol	<50.0	24.8	50.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
n-Butylbenzene	<5.00	0.640	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
sec-Butylbenzene	<5.00	0.230	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
tert-Butylbenzene	<5.00	0.180	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Carbon disulfide	<5.00	0.640	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Carbon Tetrachloride	<5.00	0.590	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Chlorobenzene	<5.00	0.280	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Chloroethane	<5.00	2.59	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
2-Chloroethyl vinyl ether	<5.00	0.190	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Chloroform	<5.00	0.490	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Chloromethane	<5.00	1.45	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
2-Chlorotoluene	<5.00	0.680	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
4-Chlorotoluene	<5.00	1.19	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Dibromochloromethane	<5.00	0.410	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2-Dibromo-3-chloropropane	<5.00	2.09	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2-Dibromoethane	<5.00	0.280	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Dibromomethane	<5.00	0.330	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2-Dichlorobenzene	<5.00	3.12	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,3-Dichlorobenzene	<5.00	0.440	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative

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3000 James Rd	Project #:	Reported: 06/03/2015
Bakersfield, CA 93308	Attention: Jennifer Brady	Received: 05/21/2015 15:25

Lab Sample ID: **1505302-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 12	Date Collected: 5/20/2015 2:00:00PM

Analyte	Results	MDL	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds									
1,4-Dichlorobenzene	<5.00	0.430	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Dichlorodifluoromethane	<5.00	0.820	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1-Dichloroethane	<5.00	0.400	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2-Dichloroethane	<5.00	0.340	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1-Dichloroethene	<5.00	0.650	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
cis-1,2-Dichloroethene	<5.00	0.750	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
trans-1,2-Dichloroethene	<5.00	0.560	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2-Dichloropropane	<5.00	0.560	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,3-Dichloropropane	<5.00	0.200	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
2,2-Dichloropropane	<5.00	0.870	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1-Dichloropropene	<5.00	0.610	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Di-isopropyl ether	<5.00	0.570	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
cis-1,3-Dichloropropene	<5.00	0.570	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
trans-1,3-Dichloropropene	<5.00	0.470	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Ethyl tert-Butyl Ether	<5.00	0.400	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Ethyl Benzene	15.9	0.280	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Hexachlorobutadiene	<5.00	0.670	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
2-Hexanone	<50.0	8.57	50.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Iodomethane	<5.00	0.790	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Isopropylbenzene	<5.00	0.180	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
4-Isopropyltoluene	<5.00	0.360	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Methylene Chloride	<5.00	1.72	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
4-Methyl-2-pentanone	<50.0	22.6	50.0	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Methyl tert-Butyl Ether	<5.00	0.670	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Naphthalene	<5.00	0.320	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
n-Propylbenzene	6.83	0.520	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Styrene	<5.00	0.240	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Tert-Amyl Methyl Ether	<5.00	1.00	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1,1,2-Tetrachloroethane	<5.00	0.180	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1,2,2-Tetrachloroethane	<5.00	0.340	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Tetrachloroethene	<5.00	0.450	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Toluene	34.0	0.310	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2,3-Trichlorobenzene	<5.00	0.260	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2,4-Trichlorobenzene	<5.00	0.680	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1,1-Trichloroethane	<5.00	0.560	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP

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

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Lab Sample ID: **1505302-01**	Collected By: Jennifer Brady
Client Sample ID: GIG Soil Sample @ 12	Date Collected: 5/20/2015 2:00:00PM

Analyte	Results	MDL	PQL	Units	Flag	Method	Date Prepared	Date Analyzed	Init.
Volatile Organic Compounds									
1,1,2-Trichloroethane	<5.00	0.490	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Trichloroethene	<5.00	0.440	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Trichlorofluoromethane	<5.00	0.570	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2,3-Trichloropropane	<5.00	0.340	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,2,4-Trimethylbenzene	34.2	0.570	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,3,5-Trimethylbenzene	10.2	0.650	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Vinyl acetate	<5.00	1.96	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Vinyl chloride	<5.00	0.790	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
o-Xylene	29.0	0.570	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
Xylenes, total	101			ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
m,p-Xylene	72.0	1.08	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP
1,1,2-Trichloro-1,2,2-Trifluoro ethane	<5.00	1.51	5.00	ug/kg		SW846 8260B	5/29/15	5/29/15	HLP

NSS: Non Sufficient Sample H: Exceeds Analysis Hold Time TTLC: Total Threshold Limit Concentration STLC: Soluble Threshold Limit Concentration TCLP: Toxicity Characteristic Leaching Procedure MCL: Maximum Contaminant Level *: See Case Narrative
The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Note: Samples analyzed for regulatory purposes should be put on ice immediately after sampling and received by the laboratory at temperatures between 0-6°C. Microbiological analysis requires samples to be at least 4-10°C when received at the laboratory. For additional information regarding the limitations of the method(s) referred to, please call us at 661-395-0539.

ZALCO LABORATORIES, INC. **CHAIN OF CUSTODY, ID#** 1505302

4309 Armour Avenue, Bakersfield, CA 93308 (661) 395-0539 FAX (661) 395-3069 www.zalcolabs.com

Page ______ of ______

Zalco Lab # ______

Client PO # ______

PROJECT ID: ______

QUOTE ID:

REPORT INFO	INVOICE INFO
Client: E-B Natural Resources	Invoice To: Same as Client ☒
Address: 3000 James Rd	Address:
City, State, Zip: Bak 93308	City, State, Zip:
Attention: Jennifer Brady	Attention:
Phone: Results ☐	Phone:
Fax: Results ☐	Fax:
Email: Results ☒ jbrady@ebresources.com	Email:

SAMPLED BY: **EMPLOYED BY:** E-B

Sample No.*	Sample Description	Date	Sample Time	Type*	# OF CONTAINERS	CAM17	VOC	TPH	ignitability	pH	reactive sulfide			TEMPERATURE (C°)
1	G1G7 soil sample @ 12'	5/21/15	1400	S	1	X	→	→	→	→	→			

COMMENTS:

Turnaround Time:

Routine ______ working days ☐

Rush By 5 working days

Send Copy to State of CA? Yes ☐ No ☐

Attention To: ______

Send Copy to County? Yes ☐ No ☐

County ______

RUSH!

Logged in ... ☒

Scanned Short Hold Time ☐ ☐

RELINQUISHED By: Signature	PRINT	COMPANY	Date	Time	RECEIVED By: Signature	PRINT
Jennifer Brady (signature)	Jennifer Brady	E-B	5/21	1525	(signature)	K Springmen

NOTE: Samples are discarded 30 days after results unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client's expense.

*Sample Type Key: AQ-Aqueous; BS-Biosolid; DW-Drinking Water; GW-Ground Water; G-Gas; LPG-Liquid Petroleum Gas; OL-Oil; O-Other; P-Petroleum; S-Soil/Solid; ST-Storm Water; WW-Wastewater

*Sample No.: FOR OFFICE USE ONLY

ATTACHMENT C:
Site Health and Safety Plan

SITE HEALTH & SAFETY PLAN
G.I.G. Oil Well Facility, 8467 Patterson Pass Road, Livermore, CA

GENERAL INFORMATION:

SITE: G.I.G. Lease, Livermore Oil Field, 8467 Patterson Pass Road, Livermore, CA

CLIENT: E&B Natural Resources Management Corporation, 1600 Norris Road, Bakersfield, CA 93308

PREPARED BY: Robert A. Booher Consulting, Fairfield, CA (707) 399-7835

OBJECTIVES: To provide a Site Health & Safety Plan for the safe completion of excavation and possible drilling activities, and soil/water sample collection.

DOCUMENTATION/SUMMARY: Petroleum hydrocarbons, crude oil, fuels may be present in soils at low to high concentrations. Site work includes excavation, drilling borings, soil and ground water sampling, and backfill excavations.

SITE/WASTE CHARACTERISTICS:

POSSIBLE WASTE TYPES: Solid, fuels, VOC's, PCB's, metals at low concentration.

CHARACTERISTICS: Possible odors, staining.

FACILITY DESCRIPTION: Oil field and oil production facility.

HAZARDOUS EVALUATION:

PARAMETER: Level D - low hazard / low risk, minimal vapors.

HEALTH: Inhalation, Ingestion, do not ingest soils, wash hands before eating.

SPECIAL PRECAUTIONS AND COMMENTS

Correct safety procedures must be followed per Site Health and Safety Plan. Backhoe or excavator safety is primary concern, moving arm and bucket. On site personnel will not enter excavations. When drilling, primary concerns includes moving or spinning equipment, possible overhead conditions.

SITE SAFETY WORK PLAN:

PERIMETER ESTABLISHMENT: Use barricades and/or traffic cones to secure excavation area and identify work area as needed, if there is any nearby pedestrian or vehicle traffic. Site

is currently fenced and locked and will continue to be fenced and locked.

PPE: Level of Protection: EPA Level D
Modifications: Hard Hats, Gloves, Respirator on site.
Surveillance Equipment: PID or OVM

SITE ENTRY PROCEDURES: Cone as necessary around excavation equipment and workers as needed. Barricades and caution tape to keep pedestrian traffic at a safe distance if needed.

DECONTAMINATION: Personal: Wash with detergent and water

EQUIPMENT: Excavator, loader, small drill rig. Soil to be placed on plastic sheeting and covered until transported.

FIRST AID: First aid kit on site.

WORKER LIMITATIONS: Utilities to be identified & marked per owner consultation. USA notified at least 48 hours in advance.

TEAM COMPOSITION: Jeff Monroe, project geologist. Backhoe/drill operators and E&B personnel (will have own Site Health and Safety Plan).

EMERGENCY INFORMATION

LOCAL RESOURCES:	Ambulance/Hospital	911
	Police/Sheriff/Highway Patrol	911
	Fire Department	911

SITE RESOURCES: Fire Extinguisher, First Aid Kit, Telephone and Water.

EMERGENCY CONTACTS:	Jeff Monroe, cell phone	(530) 237-6628
	Mike Smith, E&B	(661) 619-8675
	Charlie Davis, E&B	(661) 619-9927

EMERGENCY ROUTES:

Medical Facility –

Valley Memorial Hospital (925) 447-7000, 1111 E. Stanley Blvd., Livermore, CA. From project drive 3.0 miles west on Patterson Pass Rd Right at Mines Road 0.5 mile, Left on 1st Street 2.1 miles until 1st Street Becomes Holmes Street, continue 0.2 mile, Right on Murrieta Blvd. 0.5 mile to E. Stanley Blvd., right 0.3 mile on E. Stanley to Hospital on right.

SIGN OFF SHEET

All personnel on site have read and understand the Site Health and Safety Plan. All personnel will comply with safety procedures.

NAME (Print)	RESPONSIBILITY/COMPANY	SIGNATURE