PHONE (925) 284-4208
FAX (925) 871-3617
EMAIL:
suttongeo@sbcglobal.net

THE SUTTON GROUP

SOILS, FOUNDATIONS, DRAINAGE, SLOPES, CONTAINMENTS
CIVIL, GEOTECHNICAL AND ENVIRONMENTAL ENGINEERING

3708 Mount Diablo Blvd
Suite 215
Lafayette, CA, 94549

May 8, 2008

Mr. Steven Plunkett
Alameda County Environmental Health Department
Division of Environmental Protection
1131 Harbor Bay Parkway, 2nd floor
Alameda, CA 94502

Report of Well Closure and Soil Boring
Fuel Tank Remediation Project at the Oro Loma Sanitary District's Offices
2655 Grant Avenue
San Lorenzo, California
LOP Site No. RO0000288 ST ID 1996

Dear Mr. Plunkett:

On behalf of property owner, Oro Loma Sanitary District, The Sutton Group is pleased to provide this letter report documenting the closure of Monitoring Well MW4 at the above noted address. This work was performed in accordance with the Interim Corrective Action Plan dated August 28, 2007, which was accepted by Alameda County Environmental Health Department in their letter dated November 5, 2007.

BACKGROUND

Monitoring well MW4 was located in the asphalt paved parking lot adjacent to the District's Engineering Offices and its Maintenance Building, and within the planned bulk soil excavation area related to the former gasoline tank. Bulk excavation is planned to extend to eight feet depth in the area of the well. The 2-inch diameter well had been installed by this firm on October 16, 2002.

In order to characterize the source removal soil for disposal, a soil boring, designated SB-10, was advanced by the same drill rig in the vicinity of MW-4, which is where prior investigations had indicated the highest concentrations of contaminants. Figure 1 is a site plan which shows the location of the work.

Alameda County Public Works Agency (ACPWA) issued two permits for the work, Nos. W2008-0199 and W2008-0200 for the well closure and the boring, respectively.

FIELD ACTIVITIES

Monitoring Well MW-04 Closure

The Sutton Group sub-contracted closure of monitoring well MW-04 and drilling of the soil boring to Exploration Geoservices ("EG"), a California C57-licensed driller with hazardous waste operations certification.

On April 16, 2008 The Sutton Group and EG mobilized to the site for the closure of MW-04. Following removal of the well cover, the 2-inch diameter monitoring well MW-04 was over drilled to a depth of 15 feet bgs using an 8-inch OD x 3¼-inch ID hollow-stemmed auger. The well head, casing and demolition materials were placed in a DOT 55-gallon drum. The drum was labeled and will be held on site for disposal with the bulk of excavated soils in the next phase of the project, which will be within 60 days from the date of well closure. Neat cement grout was tremied through a pipe as the hollow-stemmed auger was extracted from the shaft. The top-most 1½ feet of the grouted shaft was capped with concrete.

Figure 2 is a log of the well closure for MW-4.

Soil Sampling

Soil boring SB-10 was located 5 feet from the MW-4 location, where the highest concentrations of ground contaminants that had been found in previous investigations. SB-10 was advanced to 8 feet depth, the planned depth of bulk soil removal, by EG under the observation of Staff Scientist, Bonnie Loox. Samples were collected from the auger flights, into clean glass containers, labeled, and placed on ice for transport to the laboratory. A chain of custody was prepared onsite and accompanied the samples to the laboratory.

Figure 3 is the log of the boring. Following sample collection, the shaft was closed with tremie-placed cement grout and topped with concrete.

Per agreement, Mr. James Yoo of the ACPWA was contacted by phone upon completion of the work.

Sample Analysis

Two of the three samples collected from boring SB-10 were analyzed for CAM 17 metals, total petroleum hydrocarbons gasoline range (TPH-G), total petroleum hydrocarbons diesel range (TPH-D), oil and grease (O&G), volatile organic compounds (VOC), and semi-volatile compounds (SVOC) in accordance with the request from the proposed landfill. The third sample was placed on-hold for possible future analysis. Analytical results are summarized in the table below. The laboratory report is included in the appendix

Table 1: SB-10 Soil Sampling Results Summary

Soil Boring	Depth (feet bgs)	TPH-G (ppm)	TPH-D (ppm)	O&G (ppm)	Benzene (ppm)	Toluene (ppm)	Ethylbenzene (ppm)	Xylenes (ppm)	MTBE (ppm)
SB-10-GF	4	2.3	2.7	82	ND	ND	0.01	0.038	1
SB-10-7	7	2,700	260	110	12	11	60	270	ND<5.0

CONCLUSION

Based upon the above data, The Sutton Group believes that monitoring well MW-04 was closed in accordance with the ICAP and the ACPWA Well Permit, and the project is ready to continue to the next phase, bulk soil excavation.

CLOSURE

This evaluation has been performed expressly for the Oro Loma Sanitary District in accordance with generally accepted, engineering principles and practices of similarly licensed professionals in this local area for the agreed work scope. No other warranty, either expressed or implied is made.

Please call if you have questions or if we can assist you in any other way.

Yours truly,
THE SUTTON GROUP

Bonnie Loox
Environmental Specialist

John R Sutton
Principal Engineer
RCE 40324, GE812, exp 12/31/2008

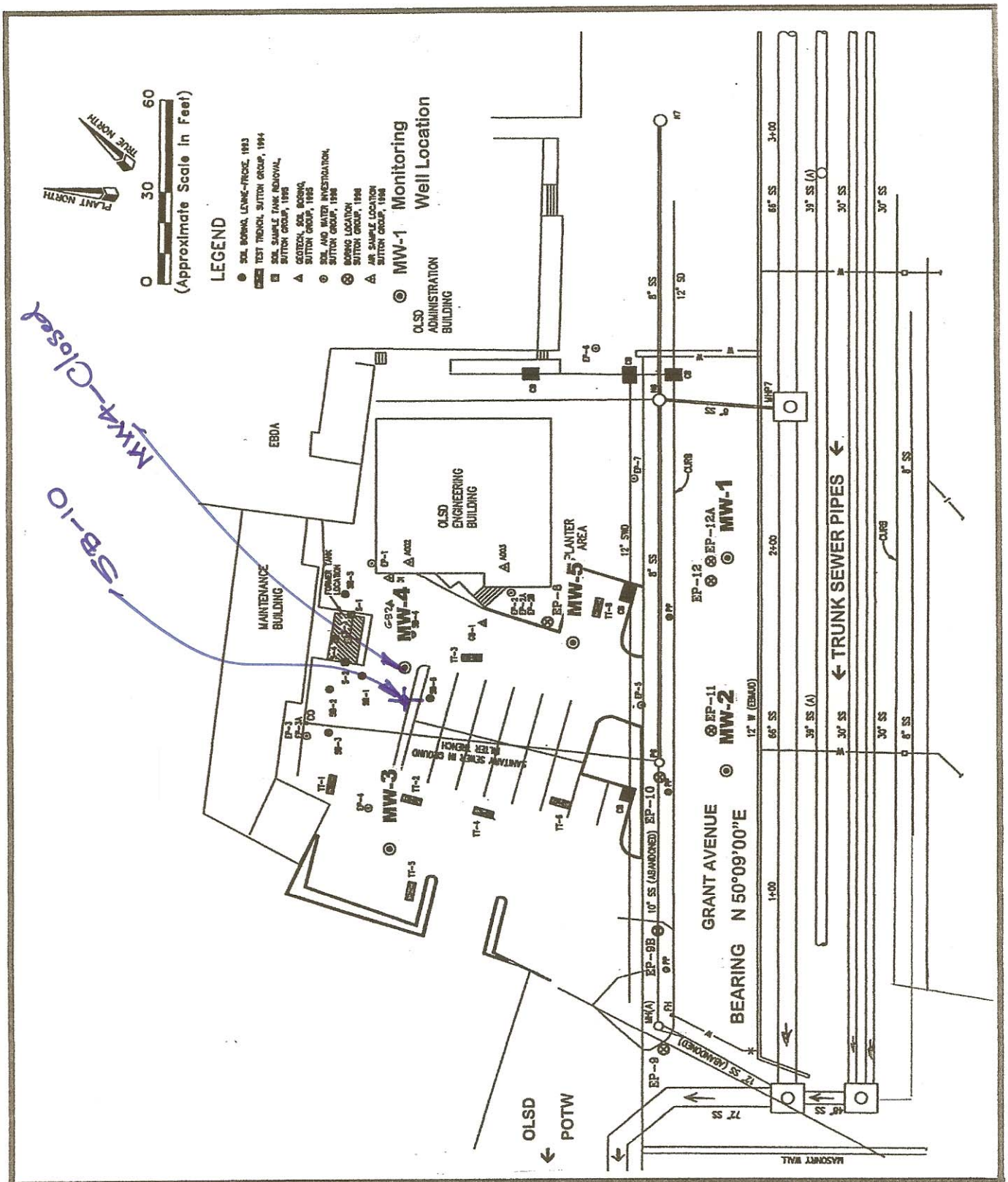
REGISTERED PROFESSIONAL ENGINEER JOHN R. SUTTON LIC. No. 40324 EXP. 12/31/08 CIVIL STATE OF CALIFORNIA

REGISTERED PROFESSIONAL ENGINEER JOHN R. SUTTON GE 812 EXP. 12/31/08 GEOTECHNICAL STATE OF CALIFORNIA

Attachments:

Figure 1	Well Location Plan, Former Gasoline Tank Area
Figure 2	Log, MW-4 Closed
Figure 3	Log, Soil Boring SB-10
Appendix:	Analytical Laboratory Report (McCampbell)
	DWR-188 Well Logs: MW-4, SB-10

Copy to Mr. Jason Warner, PE , Oro Loma Sanitary District
Copy to Mr. James Yoo, ACPWA
Copy uploaded to Alameda Co Health Services ftp web site.
Data uploaded to California DWR Geotracker database



THE SUTTON GROUP
Engineering and Environmental Services
3708 Mount Diablo Blvd, Suite 215
Lafayette, California, 94549
Phone: (925).284-4208
Fax: (925).284-4189

WELL LOCATION PLAN
SERVICE CENTER AREA
ORO LOMA SANITARY DISTRICT
2600 GRANT AVENUE,
SAN LORENZO, CA

PROJECT No. 3022.10

FIGURE 2

8/2/03

3022.10 Qtly Plan Fig 2

THE SUTTON GROUP
3708 Mt. Diablo Blvd,
SUITE 215
Lafayette, CA, 94549
(925) 284-4208

WELL DESTRUCTION LOG

WELL No. MW-4

Sheet 1 of 1

Project No.	3022.13	Drilling Company	Exploration Geoservices, Inc.
Date Drilled	4/16/2008	Driller	Dave Yeager Lic. No. C57: 484288
Client	Oro Loma Sanitary District	Drill Rig Model	Mobile B61
Site address	2655 Grant Avenue	Drilling Method /Dia.	8"x3¼" Hollow stemmed auger
	San Lorenzo, CA, 94580	Sampling Method	
Boring Location	Engrg./Mntc. Bldg Pkg. lot, near fmr tank loc.	Rim Elevation	9.40 Datum: msl

Logged By	Bonnie Loox	Water depth	5'			
		Time/Date	4/16/2008			

DEPTH FEET	SAMPLE #, TYPE	BLOWS / 6 IN./ N	SYMBOL	USCS CLASS	DESCRIPTION	MW4 WELL DETAILS	WELL DESTRUCTION	DEPTH FEET
0					Asphalt over Aggregate base, total thickness 8in			0
				GP-	FILL, crushed rock to 2" max size, moist, tan to blue green	@1 ½ '		TOP 1 ½' FILLED WITH CON CRETE
				-GM	Slight petroleum odor			
						@3½'		
						@4' SLOTTE TO 14 ft		
5					increased odor			5
				CH	CLAY, silty, soft, some peat, mod to strong			
				-OH	petroleum odor, wet, gray/black BAY MUD			
10					**Casing and sand-pack drilled out to 15 ft depth**			10
					Tremie- grouted up to 1½ ft depth			
					Top 1½' filled with concrete.			
15								15
					Total Depth drilled = 15 ft.			
20								20

SAMPLER Type: S = 2" OD SPT; CA = 2" ID California, 25 = 2½ " ID California, ST = Shelby, P = Pitcher Sample

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BORING LOG

BORING No.: SB-10

Sheet 1 of 1

Project No.	3022.13	Drilling Company	Exploration Geoservices, Inc.
Date Drilled	4/16/2008	Driller	Dave Yeager Lic. No. 484288
Client	Oro Loma Sanitary District	Drill Rig Model	Mobile B61
Site address	2655 Grant Avenue	Drilling Method	8"x3¼" Hollow stemmed auger
	San Lorenzo, CA, 94580	Borehole Diameter	
Boring	Engrg./Mntc. Bldg Pkg. lot,	Sampling Method	Grab sample from auger flights
Location	4 ft from MW-4	Start Drilling	11am End drilling 11:20am
		Surface Elevation	9.4± Datum msl

Logged By Bonnie Loox

water level	~5'				
Time/Date	Drill				

DEPTH FEET	SAMPLE TYPE	BLOW / N	BLOWCOUNT	USCS CLASS	DESCRIPTION	DEPTH FEET
0				AC AB	Asphalt on well-graded aggregate base, dark grey Total depth approx 9".	0
	10-GF			GP	GRAVEL, very sandy-crushed rock to 2" max size, light brown @ 3.5': Gas = 2.3 ppm; B=ND, T=ND, EB=0.010, X=0.038, MTBE=1.0	
5	10-4			CH	CLAY, very moist, high plastic, green, strong gasoline odor Strong Petroleum odor. Sample on HOLD	▼ 5
	10-7				CLAY, very moist, medium stiff, very silty, gray-green @ 7' : Gas = 2,700 ppm; B=12, T=11, EB=60, X=270, MTBE=ND<5.0	
10					Boring terminated at 8ft depth Backfilled with cement grout, topped with concrete.	10
15						15
						20

SAMPLER Type: S = 2" OD SPT; CA = 2" ID California, 25 = 2½ " ID California, ST = Shelby, P = Pitcher Sample

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
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Telephone: 877-252-9262 Fax: 925-252-9269

The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received: 04/16/08
	Client Contact: John Sutton	Date Reported: 04/18/08
	Client P.O.:	Date Completed: 04/18/08

WorkOrder: 0804386

April 18, 2008

Dear John:

Enclosed within are:

1) The results of the **2** analyzed samples from your project: **#CA1905-1; Oro Loma SD Excavatio**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0804386

McCAMPBELL ANALYTICAL, INC.

1534 WILLOW PASS ROAD
PITTSBURG, CA 94565-1701
Website: www.mccampbell.com Email: main@mccampbell.com
Telephone: (877) 252-9262 Fax: (925) 252-9269

RUSH

CHAIN OF CUSTODY RECORD

TURN AROUND TIME ☐ RUSH ☐ 24 HR ☒ 48 HR ☐ 72 HR ☐ 5 DAY

GeoTracker EDF ☐ PDF ☐ Excel ☐ Write On (DW) ☐

Report To: John Sutton	Bill To: John Sutton
Company: The Sutton Group	
3708 Mt. Diablo Blvd. #215	suttongeo@sbcglobal.net
Lafayette, CA 94549	E-Mail: bbox@ceresassociates.com
Tele: ( )	Fax: ( )
Project #: CA 1905-1	Project Name: Oro Loma SD Excavation
Project Location: San Lorenzo	
Sampler Signature:	

SAMPLE ID	LOCATION/ Field Point Name	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED ICE	METHOD PRESERVED HCL	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
SB-10-GF	Eof MW-4	4/16/08		2	GL		X				X			
SB-10-4	"	4/16/08		2	GL		X				X			
SB-10-7	"	4/16/08		2	GL		X				X			

Analysis Request

MTBE / BTEX & TPH as Gas (602 / 8021 + 8015)	MTBE / BTEX ONLY (EPA 602 / 8021)	TPH as Diesel / ~~Motor Oil~~ (8015)	Total Petroleum Oil & Grease (1664 / 5520 E/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 502.2 / 601 / 8010 / 8021 (HVOCs)	EPA 505/ 608 / 8081 (Cl Pesticides)	EPA 608 / 8082 PCB's ONLY; Aroclors / Congeners	EPA 507 / 8141 (NP Pesticides)	EPA 515 / 8151 (Acidic Cl Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525.2 / 625 / 8270 (SVOCs)	EPA 8270 SIM / 8310 (PAHs / PNAs)	CAM 17 Metals (200.7 / 200.8 / 6010 / 6020)	LUFT 5 Metals (200.7 / 200.8 / 6010 / 6020)	Lead (200.7 / 200.8 / 6010 / 6020)
		X	X							X	X		X		
HOLD															
		X	X							X	X		X		

Other | Comments

Filter Samples for Metals analysis: Yes / No

Relinquished By:	Date:	Time:	Received By:
	4/16/08	13:00	Mike Vall
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/t° 10.2°C ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT
DECHLORINATED IN LAB
APPROPRIATE CONTAINERS ✓
PRESERVED IN LAB

COMMENTS: GL= 4-oz glass jars

	VOAS	O&G	METALS	OTHER
PRESERVATION			pH<2	

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0804386 **ClientCode: TSG**

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

Report to:
John Sutton
The Sutton Group
3708 Mt. Diablo Blvd, Ste. 215
Lafayette, CA 94549

Email: suttongeo@sbcglobal.net
TEL: (925) 944-2856 FAX: 925-284-4189
PO:
ProjectNo: #CA1905-1; Oro Loma SD Excavation

Bill to:
Accounts Payable
The Sutton Group
3708 Mt. Diablo Blvd, Ste. 215
Lafayette, CA 94549

Requested TAT: 2 days

Date Received: **04/16/2008**
Date Printed: **04/16/2008**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0804386-001	SB-10-GF	Solid	4/16/2008	☐		A		A		A		A		A		
0804386-003	SB-10-7	Sludge	4/16/2008	☐	A		A		A		A		A			

Test Legend:

1	5520E_SG_SLUDGE	2	5520E_SG_Solid	3	8260B_Sludge	4	8260B_Solid	5	8270D_Sludge
6	8270D_Solid	7	CAM17MS_Sludge	8	CAM17MS_Solid	9	G-MBTEX_Sludge	10	G-MBTEX_Solid
11		12							

The following SampIDs: 001A, 003A contain testgroup.

Prepared by: Melissa Valles

Comments: please cc: bloox@ceresassociates.com

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

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **The Sutton Group**

Date and Time Received: **4/16/08 1:26:48 PM**

Project Name: **#CA1905-1; Oro Loma SD Excavation**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0804386** Matrix Sludge/Solid

Carrier: Client Drop-In

Chain of Custody (COC) Information

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

Sample Receipt Information

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

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 10.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑

Client contacted: Date contacted: Contacted by:

Comments:

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Telephone: 877-252-9262 Fax: 925-252-9269

The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received: 04/16/08
	Client Contact: John Sutton	Date Extracted: 04/16/08
	Client P.O.:	Date Analyzed 04/16/08

Petroleum Oil & Grease with Silica Gel Clean-Up*

Extraction method SM5520E/F Analytical methods SM5520E/F Work Order: 0804386

Lab ID	Client ID	Matrix	POG	DF	% SS
0804386-001A	SB-10-GF	S	82	1	N/A
0804386-003A	SB-10-7	SLUDGE	110	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S/SLUDGE	50	mg/Kg

* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).

surrogate diluted out of range or not applicable to this sample.

g) sample extract repeatedly cleaned up with silica gel until constant IR result achieved; h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to matrix interference; r) results are reported on a dry weight basis.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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The Sutton Group	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received: 04/16/08
3708 Mt. Diablo Blvd, Ste. 215	Client Contact: John Sutton	Date Extracted: 04/16/08
Lafayette, CA 94549	Client P.O.:	Date Analyzed 04/17/08

Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0804386

Lab ID	0804386-001A
Client ID	SB-10-GF
Matrix	Solid

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	0.05	Acrolein (Propenal)	ND	1.0	0.05
Acrylonitrile	ND	1.0	0.02	tert-Amyl methyl ether (TAME)	ND	1.0	0.005
Benzene	ND	1.0	0.005	Bromobenzene	ND	1.0	0.005
Bromochloromethane	ND	1.0	0.005	Bromodichloromethane	ND	1.0	0.005
Bromoform	ND	1.0	0.005	Bromomethane	ND	1.0	0.005
2-Butanone (MEK)	ND	1.0	0.02	t-Butyl alcohol (TBA)	ND	1.0	0.05
n-Butyl benzene	0.0077	1.0	0.005	sec-Butyl benzene	ND	1.0	0.005
tert-Butyl benzene	ND	1.0	0.005	Carbon Disulfide	ND	1.0	0.005
Carbon Tetrachloride	ND	1.0	0.005	Chlorobenzene	ND	1.0	0.005
Chloroethane	ND	1.0	0.005	2-Chloroethyl Vinyl Ether	ND	1.0	0.01
Chloroform	ND	1.0	0.005	Chloromethane	ND	1.0	0.005
2-Chlorotoluene	ND	1.0	0.005	4-Chlorotoluene	ND	1.0	0.005
Dibromochloromethane	ND	1.0	0.005	1,2-Dibromo-3-chloropropane	ND	1.0	0.004
1,2-Dibromoethane (EDB)	ND	1.0	0.004	Dibromomethane	ND	1.0	0.005
1,2-Dichlorobenzene	ND	1.0	0.005	1,3-Dichlorobenzene	ND	1.0	0.005
1,4-Dichlorobenzene	ND	1.0	0.005	Dichlorodifluoromethane	ND	1.0	0.005
1,1-Dichloroethane	ND	1.0	0.005	1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.004
1,1-Dichloroethene	ND	1.0	0.005	cis-1,2-Dichloroethene	ND	1.0	0.005
trans-1,2-Dichloroethene	ND	1.0	0.005	1,2-Dichloropropane	ND	1.0	0.005
1,3-Dichloropropane	ND	1.0	0.005	2,2-Dichloropropane	ND	1.0	0.005
1,1-Dichloropropene	ND	1.0	0.005	cis-1,3-Dichloropropene	ND	1.0	0.005
trans-1,3-Dichloropropene	ND	1.0	0.005	Diisopropyl ether (DIPE)	ND	1.0	0.005
Ethylbenzene	0.010	1.0	0.005	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.005
Freon 113	ND	1.0	0.1	Hexachlorobutadiene	ND	1.0	0.005
Hexachloroethane	ND	1.0	0.005	2-Hexanone	ND	1.0	0.005
Isopropylbenzene	ND	1.0	0.005	4-Isopropyl toluene	ND	1.0	0.005
Methyl-t-butyl ether (MTBE)	ND	1.0	0.005	Methylene chloride	ND	1.0	0.005
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.005	Naphthalene	0.012	1.0	0.005
Nitrobenzene	ND	1.0	0.1	n-Propyl benzene	0.0061	1.0	0.005
Styrene	ND	1.0	0.005	1,1,1,2-Tetrachloroethane	ND	1.0	0.005
1,1,2,2-Tetrachloroethane	ND	1.0	0.005	Tetrachloroethene	ND	1.0	0.005
Toluene	ND	1.0	0.005	1,2,3-Trichlorobenzene	ND	1.0	0.005
1,2,4-Trichlorobenzene	ND	1.0	0.005	1,1,1-Trichloroethane	ND	1.0	0.005
1,1,2-Trichloroethane	ND	1.0	0.005	Trichloroethene	ND	1.0	0.005
Trichlorofluoromethane	ND	1.0	0.005	1,2,3-Trichloropropane	ND	1.0	0.005
1,2,4-Trimethylbenzene	0.073	1.0	0.005	1,3,5-Trimethylbenzene	0.024	1.0	0.005
Vinyl Chloride	ND	1.0	0.005	Xylenes	0.038	1.0	0.005

Surrogate Recoveries (%)

%SS1:	108	%SS2:	99
%SS3:	96		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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The Sutton Group	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
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Volatile Organics by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0804386

Lab ID	0804386-003A
Client ID	SB-10-7
Matrix	Sludge

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND<50	1000	0.05	Acrolein (Propenal)	ND<50	1000	0.05
Acrylonitrile	ND<20	1000	0.02	tert-Amyl methyl ether (TAME)	ND<5.0	1000	0.005
Benzene	12	1000	0.005	Bromobenzene	ND<5.0	1000	0.005
Bromochloromethane	ND<5.0	1000	0.005	Bromodichloromethane	ND<5.0	1000	0.005
Bromoform	ND<5.0	1000	0.005	Bromomethane	ND<5.0	1000	0.005
2-Butanone (MEK)	ND<20	1000	0.02	t-Butyl alcohol (TBA)	ND<50	1000	0.05
n-Butyl benzene	9.1	1000	0.005	sec-Butyl benzene	ND<5.0	1000	0.005
tert-Butyl benzene	ND<5.0	1000	0.005	Carbon Disulfide	ND<5.0	1000	0.005
Carbon Tetrachloride	ND<5.0	1000	0.005	Chlorobenzene	ND<5.0	1000	0.005
Chloroethane	ND<5.0	1000	0.005	2-Chloroethyl Vinyl Ether	ND<10	1000	0.01
Chloroform	ND<5.0	1000	0.005	Chloromethane	ND<5.0	1000	0.005
2-Chlorotoluene	ND<5.0	1000	0.005	4-Chlorotoluene	ND<5.0	1000	0.005
Dibromochloromethane	ND<5.0	1000	0.005	1,2-Dibromo-3-chloropropane	ND<4.0	1000	0.004
1,2-Dibromoethane (EDB)	ND<4.0	1000	0.004	Dibromomethane	ND<5.0	1000	0.005
1,2-Dichlorobenzene	ND<5.0	1000	0.005	1,3-Dichlorobenzene	ND<5.0	1000	0.005
1,4-Dichlorobenzene	ND<5.0	1000	0.005	Dichlorodifluoromethane	ND<5.0	1000	0.005
1,1-Dichloroethane	ND<5.0	1000	0.005	1,2-Dichloroethane (1,2-DCA)	ND<4.0	1000	0.004
1,1-Dichloroethene	ND<5.0	1000	0.005	cis-1,2-Dichloroethene	ND<5.0	1000	0.005
trans-1,2-Dichloroethene	ND<5.0	1000	0.005	1,2-Dichloropropane	ND<5.0	1000	0.005
1,3-Dichloropropane	ND<5.0	1000	0.005	2,2-Dichloropropane	ND<5.0	1000	0.005
1,1-Dichloropropene	ND<5.0	1000	0.005	cis-1,3-Dichloropropene	ND<5.0	1000	0.005
trans-1,3-Dichloropropene	ND<5.0	1000	0.005	Diisopropyl ether (DIPE)	ND<5.0	1000	0.005
Ethylbenzene	60	1000	0.005	Ethyl tert-butyl ether (ETBE)	ND<5.0	1000	0.005
Freon 113	ND<100	1000	0.1	Hexachlorobutadiene	ND<5.0	1000	0.005
Hexachloroethane	ND<5.0	1000	0.005	2-Hexanone	ND<5.0	1000	0.005
Isopropylbenzene	5.7	1000	0.005	4-Isopropyl toluene	ND<5.0	1000	0.005
Methyl-t-butyl ether (MTBE)	ND<5.0	1000	0.005	Methylene chloride	ND<5.0	1000	0.005
4-Methyl-2-pentanone (MIBK)	ND<5.0	1000	0.005	Naphthalene	14	1000	0.005
Nitrobenzene	ND<100	1000	0.1	n-Propyl benzene	19	1000	0.005
Styrene	ND<5.0	1000	0.005	1,1,1,2-Tetrachloroethane	ND<5.0	1000	0.005
1,1,2,2-Tetrachloroethane	ND<5.0	1000	0.005	Tetrachloroethene	ND<5.0	1000	0.005
Toluene	11	1000	0.005	1,2,3-Trichlorobenzene	ND<5.0	1000	0.005
1,2,4-Trichlorobenzene	ND<5.0	1000	0.005	1,1,1-Trichloroethane	ND<5.0	1000	0.005
1,1,2-Trichloroethane	ND<5.0	1000	0.005	Trichloroethene	ND<5.0	1000	0.005
Trichlorofluoromethane	ND<5.0	1000	0.005	1,2,3-Trichloropropane	ND<5.0	1000	0.005
1,2,4-Trimethylbenzene	100	1000	0.005	1,3,5-Trimethylbenzene	35	1000	0.005
Vinyl Chloride	ND<5.0	1000	0.005	Xylenes	270	1000	0.005

Surrogate Recoveries (%)

%SS1:	107	%SS2:	100
%SS3:	95		

Comments:

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.

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The Sutton Group	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received: 04/16/08
3708 Mt. Diablo Blvd, Ste. 215	Client Contact: John Sutton	Date Extracted: 04/16/08
Lafayette, CA 94549	Client P.O.:	Date Analyzed 04/17/08

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270C Work Order: 0804386

Lab ID	0804386-001A
Client ID	SB-10-GF
Matrix	Solid

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Acetochlor	ND	1.0	0.33	Anthracene	ND	1.0	0.33
Benzidine	ND	1.0	1.6	Benzoic Acid	ND	1.0	1.6
Benzo(a)anthracene	ND	1.0	0.33	Benzo(b)fluoranthene	ND	1.0	0.33
Benzo(k)fluoranthene	ND	1.0	0.33	Benzo(g,h,i)perylene	ND	1.0	0.33
Benzo(a)pyrene	ND	1.0	0.33	Benzyl Alcohol	ND	1.0	1.6
1,1-Biphenyl	ND	1.0	0.33	Bis (2-chloroethoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	1.0	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cres	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
2-Nitrophenol	ND	1.0	1.6	4-Nitrophenol	ND	1.0	1.6
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Pyrene	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				

Surrogate Recoveries (%)

%SS1:	72	%SS2:	77
%SS3:	77	%SS4:	86
%SS5:	66	%SS6:	83

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; r) results are reported on a dry weight basis.

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The Sutton Group	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received: 04/16/08
3708 Mt. Diablo Blvd, Ste. 215	Client Contact: John Sutton	Date Extracted: 04/16/08
Lafayette, CA 94549	Client P.O.:	Date Analyzed 04/17/08

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3550C Analytical Method: SW8270C Work Order: 0804386

Lab ID	0804386-003A
Client ID	SB-10-7
Matrix	Sludge

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND<3.3	10	0.33	Acenaphthylene	ND<3.3	10	0.33
Acetochlor	ND<3.3	10	0.33	Anthracene	ND<3.3	10	0.33
Benzidine	ND<16	10	1.6	Benzoic Acid	ND<16	10	1.6
Benzo(a)anthracene	ND<3.3	10	0.33	Benzo(b)fluoranthene	ND<3.3	10	0.33
Benzo(k)fluoranthene	ND<3.3	10	0.33	Benzo(g,h,i)perylene	ND<3.3	10	0.33
Benzo(a)pyrene	ND<3.3	10	0.33	Benzyl Alcohol	ND<16	10	1.6
1,1-Biphenyl	ND<3.3	10	0.33	Bis (2-chloroethoxy) Methane	ND<3.3	10	0.33
Bis (2-chloroethyl) Ether	ND<3.3	10	0.33	Bis (2-chloroisopropyl) Ether	ND<3.3	10	0.33
Bis (2-ethylhexyl) Phthalate	ND<3.3	10	0.33	4-Bromophenyl Phenyl Ether	ND<3.3	10	0.33
Butylbenzyl Phthalate	ND<3.3	10	0.33	4-Chloroaniline	ND<6.6	10	0.66
4-Chloro-3-methylphenol	ND<3.3	10	0.33	2-Chloronaphthalene	ND<3.3	10	0.33
2-Chlorophenol	ND<3.3	10	0.33	4-Chlorophenyl Phenyl Ether	ND<3.3	10	0.33
Chrysene	ND<3.3	10	0.33	Dibenzo(a,h)anthracene	ND<3.3	10	0.33
Dibenzofuran	ND<3.3	10	0.33	Di-n-butyl Phthalate	ND<3.3	10	0.33
1,2-Dichlorobenzene	ND<3.3	10	0.33	1,3-Dichlorobenzene	ND<3.3	10	0.33
1,4-Dichlorobenzene	ND<3.3	10	0.33	3,3-Dichlorobenzidine	ND<6.6	10	0.66
2,4-Dichlorophenol	ND<3.3	10	0.33	Diethyl Phthalate	ND<3.3	10	0.33
2,4-Dimethylphenol	ND<3.3	10	0.33	Dimethyl Phthalate	ND<3.3	10	0.33
4,6-Dinitro-2-methylphenol	ND<16	10	1.6	2,4-Dinitrophenol	ND<16	10	1.6
2,4-Dinitrotoluene	ND<3.3	10	0.33	2,6-Dinitrotoluene	ND<3.3	10	0.33
Di-n-octyl Phthalate	ND<3.3	10	0.33	1,2-Diphenylhydrazine	ND<3.3	10	0.33
Fluoranthene	ND<3.3	10	0.33	Fluorene	ND<3.3	10	0.33
Hexachlorobenzene	ND<3.3	10	0.33	Hexachlorobutadiene	ND<3.3	10	0.33
Hexachlorocyclopentadiene	ND<16	10	1.6	Hexachloroethane	ND<3.3	10	0.33
Indeno (1,2,3-cd) pyrene	ND<3.3	10	0.33	Isophorone	ND<3.3	10	0.33
2-Methylnaphthalene	5.9	10	0.33	2-Methylphenol (o-Cresol)	ND<3.3	10	0.33
3 &/or 4-Methylphenol (m,p-Cres	ND<3.3	10	0.33	Naphthalene	ND<3.3	10	0.33
2-Nitroaniline	ND<16	10	1.6	3-Nitroaniline	ND<16	10	1.6
4-Nitroaniline	ND<16	10	1.6	Nitrobenzene	ND<3.3	10	0.33
2-Nitrophenol	ND<16	10	1.6	4-Nitrophenol	ND<16	10	1.6
N-Nitrosodiphenylamine	ND<3.3	10	0.33	N-Nitrosodi-n-propylamine	ND<3.3	10	0.33
Pentachlorophenol	ND<16	10	1.6	Phenanthrene	ND<3.3	10	0.33
Phenol	ND<3.3	10	0.33	Pyrene	ND<3.3	10	0.33
1,2,4-Trichlorobenzene	ND<3.3	10	0.33	2,4,5-Trichlorophenol	ND<3.3	10	0.33
2,4,6-Trichlorophenol	ND<3.3	10	0.33				

Surrogate Recoveries (%)

%SS1:	45	%SS2:	---#
%SS3:	59	%SS4:	85
%SS5:	---#	%SS6:	69

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; r) results are reported on a dry weight basis.

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The Sutton Group	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received 04/16/08
3708 Mt. Diablo Blvd, Ste. 215	Client Contact: John Sutton	Date Extracted 04/16/08
Lafayette, CA 94549	Client P.O.:	Date Analyzed 04/17/08

CAM / CCR 17 Metals*

					Reporting Limit for DF =1; ND means not detected above the reporting limit	
Lab ID	0804386-003A					
Client ID	SB-10-7					
Matrix	Sludge				Sludge	W
Extraction Type	TOTAL				mg/Kg	mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A Extraction Method: SW3050B Work Order: 0804386

Dilution Factor	1				1	1
Antimony	ND				0.5	NA
Arsenic	3.9				0.5	NA
Barium	130				5.0	NA
Beryllium	ND				0.5	NA
Cadmium	ND				0.25	NA
Chromium	29				0.5	NA
Cobalt	6.7				0.5	NA
Copper	12				0.5	NA
Lead	18				0.5	NA
Mercury	ND				0.05	NA
Molybdenum	ND				0.5	NA
Nickel	27				0.5	NA
Selenium	ND				0.5	NA
Silver	ND				0.5	NA
Thallium	ND				0.5	NA
Vanadium	28				0.5	NA
Zinc	43				5.0	NA
%SS:	129					

Comments

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

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The Sutton Group	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received 04/16/08
3708 Mt. Diablo Blvd, Ste. 215	Client Contact: John Sutton	Date Extracted 04/16/08
Lafayette, CA 94549	Client P.O.:	Date Analyzed 04/17/08

CAM / CCR 17 Metals*

					Reporting Limit for DF =1; ND means not detected above the reporting limit	
Lab ID	0804386-001A					
Client ID	SB-10-GF					
Matrix	S				S	W
Extraction Type	TOTAL				mg/Kg	mg/L

ICP-MS Metals, Concentration*

Analytical Method: 6020A Extraction Method: SW3050B Work Order: 0804386

Dilution Factor	10				1	1
Antimony	ND<5.0				0.5	NA
Arsenic	ND<5.0				0.5	NA
Barium	ND<50				5.0	NA
Beryllium	ND<5.0				0.5	NA
Cadmium	ND<2.5				0.25	NA
Chromium	72				0.5	NA
Cobalt	26				0.5	NA
Copper	130				0.5	NA
Lead	ND<5.0				0.5	NA
Mercury	ND<0.50				0.05	NA
Molybdenum	ND<5.0				0.5	NA
Nickel	58				0.5	NA
Selenium	ND<5.0				0.5	NA
Silver	ND<5.0				0.5	NA
Thallium	ND<5.0				0.5	NA
Vanadium	60				0.5	NA
Zinc	ND<50				5.0	NA
%SS:	104					
Comments	k					

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TOTAL metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative; J) "J-Flag" - estimated value detected between the RL & MDL.

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The Sutton Group 3708 Mt. Diablo Blvd, Ste. 215 Lafayette, CA 94549	Client Project ID: #CA1905-1; Oro Loma SD Excavation	Date Sampled: 04/16/08
		Date Received: 04/16/08
	Client Contact: John Sutton	Date Extracted: 04/16/08
	Client P.O.:	Date Analyzed 04/16/08

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline*

Extraction method SW5030B Analytical methods SW8015Cm Work Order: 0804386

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS
001A	SB-10-GF	S	2.3,b	1	95
003A	SB-10-7	SLUDGE	2700,b,m	1000	---#

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S/SLUDGE	1.0	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

sample peak coelutes with surrogate peak; no surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) reporting limit raised due to high organic content / insufficient sample amount; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) value derived using a client specified carbon range; o) results are reported on a dry weight basis; p) see attached narrative.

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		Date Received: 04/16/08
	Client Contact: John Sutton	Date Extracted: 04/16/08
	Client P.O.:	Date Analyzed 04/16/08-04/17/08

Total Extractable Petroleum Hydrocarbons*

Extraction method SW3550C Analytical methods: SW8015C Work Order: 0804386

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS
0804386-001A	SB-10-GF	S	2.7,g,b,d	1	108
0804386-003A	SB-10-7	Sludge	260,d	5	117

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S/Sludge	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant (asphalt); h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS ELAP Certification N° 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SM5520E/F

W.O. Sample Matrix: Sludge/Solid QC Matrix: Soil WorkOrder 0804386

EPA Method SM5520E/F	Extraction SM5520E/F	BatchID: 35020	Spiked Sample ID: 0804377-021A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
POG	ND	1000	110	112	2.26	89.9	92.2	2.54	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35020 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-001A	04/16/08	04/16/08	04/16/08 7:35 PM	0804386-003A	04/16/08	04/16/08	04/16/08 7:40 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

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QC SUMMARY REPORT FOR SW8015C

W.O. Sample Matrix: Sludge/Solid QC Matrix: Soil WorkOrder 0804386

EPA Method SW8015C	Extraction SW3550C	BatchID: 35019	Spiked Sample ID: 0804377-035A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	ND	20	110	115	4.12	116	104	11.3	70 - 130	30	70 - 130	30
%SS:	115	50	115	108	6.47	105	97	8.26	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35019 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-001A	04/16/08	04/16/08	04/17/08 10:28 AM	0804386-003A	04/16/08	04/16/08	04/16/08 7:39 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification N° 1644

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Sludge/Solid QC Matrix: Soil WorkOrder 0804386

EPA Method SW8260B	Extraction SW5030B	BatchID: 35035	Spiked Sample ID: 0804377-037A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	120	119	0.857	116	115	0.732	60 - 130	30	60 - 130	30
Benzene	ND	0.050	117	110	6.29	114	112	1.99	60 - 130	30	60 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	78.2	83	5.96	81.4	93	13.3	60 - 130	30	60 - 130	30
Chlorobenzene	ND	0.050	107	102	4.50	103	101	1.63	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	110	108	1.86	108	107	0.990	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	121	118	2.58	118	117	0.406	60 - 130	30	60 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	116	113	2.71	112	111	1.70	60 - 130	30	60 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	121	119	1.76	118	117	0.983	60 - 130	30	60 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	120	119	0.840	117	119	0.947	60 - 130	30	60 - 130	30
Toluene	ND	0.050	128	120	6.45	122	120	1.50	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	110	104	5.33	106	107	0.109	60 - 130	30	60 - 130	30
%SS1:	99	0.050	103	103	0	99	98	0.806	70 - 130	30	70 - 130	30
%SS2:	107	0.050	113	113	0	111	111	0	70 - 130	30	70 - 130	30
%SS3:	118	0.050	73	74	0.589	76	77	1.01	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35035 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-001A	04/16/08	04/16/08	04/17/08 10:04 PM	0804386-003A	04/16/08	04/16/08	04/17/08 9:20 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Sludge/Solid QC Matrix: Soil WorkOrder 0804386

EPA Method SW8021B/8015Cm	Extraction SW5030B	BatchID: 35037	Spiked Sample ID: 0804377-037A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	102	108	6.14	106	108	1.36	70 - 130	20	70 - 130	20
MTBE	ND	0.10	95.5	103	7.13	105	109	3.68	70 - 130	20	70 - 130	20
Benzene	ND	0.10	89.7	95.1	5.90	99.1	101	1.46	70 - 130	20	70 - 130	20
Toluene	ND	0.10	105	111	6.07	115	116	1.02	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	99.8	106	6.26	108	111	2.48	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	109	117	6.46	119	121	1.66	70 - 130	20	70 - 130	20
%SS:	87	0.10	90	93	3.41	99	99	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35037 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-001A	04/16/08	04/16/08	04/16/08 8:39 PM	0804386-003A	04/16/08	04/16/08	04/16/08 9:10 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Sludge/Solid QC Matrix: Soil WorkOrder: 0804386

EPA Method SW8270C	Extraction SW3550C				BatchID: 35036			Spiked Sample ID: 0804453-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Acenaphthene	ND<16	2	97	96	1.04	72.9	72.7	0.357	30 - 130	30	30 - 130	30
4-Chloro-3-methylphenol	ND<16	4	73.8	77.2	4.64	66.7	67.7	1.53	30 - 130	30	30 - 130	30
2-Chlorophenol	ND<16	4	92.2	92.5	0.271	77.2	79.3	2.71	30 - 130	30	30 - 130	30
1,4-Dichlorobenzene	ND<16	2	98	99	1.02	75.5	75.7	0.278	30 - 130	30	30 - 130	30
2,4-Dinitrotoluene	ND<16	2	NR	NR	NR	72.9	73.2	0.438	30 - 130	30	30 - 130	30
4-Nitrophenol	ND<80	4	57.5	67.5	16.0	91.3	91	0.324	30 - 130	30	30 - 130	30
N-Nitrosodi-n-propylamine	ND<16	2	96.5	101	4.56	75.5	76.2	1.00	30 - 130	30	30 - 130	30
Pentachlorophenol	ND<80	4	NR	NR	NR	48.2	45.4	6.03	30 - 130	30	30 - 130	30
Phenol	ND<16	4	90.8	91.5	0.823	65.6	67.1	2.25	30 - 130	30	30 - 130	30
Pyrene	ND<16	2	69	69	0	63.9	62.8	1.78	30 - 130	30	30 - 130	30
1,2,4-Trichlorobenzene	ND<16	2	87.5	86.5	1.15	69	68.7	0.479	30 - 130	30	30 - 130	30
%SS1:	82	200	84	82	1.73	92	94	2.21	30 - 130	30	30 - 130	30
%SS2:	76	200	78	74	5.30	87	90	2.77	30 - 130	30	30 - 130	30
%SS3:	76	200	77	78	2.42	88	88	0	30 - 130	30	30 - 130	30
%SS4:	105	200	92	91	0.769	94	92	1.51	30 - 130	30	30 - 130	30
%SS5:	43	200	49	53	8.35	86	85	0.550	30 - 130	30	30 - 130	30
%SS6:	68	200	62	58	7.19	81	81	0	30 - 130	30	30 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

BATCH 35036 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-001A	04/16/08	04/16/08	04/17/08 5:11 PM	0804386-003A	04/16/08	04/16/08	04/17/08 6:35 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification N° 1644

QA/QC Officer

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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Sludge QC Matrix: Soil WorkOrder 0804386

EPA Method 6020A **Extraction SW3050B** **BatchID: 35021** **Spiked Sample ID 0804377-028A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	ND	50	97.6	102	4.79	10	103	107	4.01	70 - 130	20	80 - 120	20
Arsenic	3.3	50	97.2	102	4.85	10	103	108	4.37	70 - 130	20	80 - 120	20
Barium	140	500	99.3	106	5.28	100	102	105	2.80	70 - 130	20	80 - 120	20
Beryllium	ND	50	87.3	89.8	2.89	10	100	104	3.44	70 - 130	20	80 - 120	20
Cadmium	ND	50	92.5	97.1	4.86	10	102	104	2.24	70 - 130	20	80 - 120	20
Chromium	100	50	105	123	5.69	10	99.3	106	6.72	70 - 130	20	80 - 120	20
Cobalt	11	50	89.3	93.8	3.97	10	102	105	2.90	70 - 130	20	80 - 120	20
Copper	28	50	95.3	105	5.95	10	98.6	105	6.21	70 - 130	20	80 - 120	20
Lead	4.4	50	94.7	101	5.52	10	101	104	2.83	70 - 130	20	80 - 120	20
Mercury	0.14	1.25	94.1	99.8	5.27	0.25	102	103	0.973	70 - 130	20	80 - 120	20
Molybdenum	ND	50	95	99.7	4.85	10	99.5	104	4.73	70 - 130	20	80 - 120	20
Nickel	59	50	103	117	6.17	10	101	107	5.89	70 - 130	20	80 - 120	20
Selenium	ND	50	94.5	96.9	2.43	10	99.9	108	7.41	70 - 130	20	80 - 120	20
Silver	ND	50	88.7	92.8	4.54	10	98.6	102	3.79	70 - 130	20	80 - 120	20
Thallium	ND	50	95.2	101	5.86	10	97.7	102	3.85	70 - 130	20	80 - 120	20
Vanadium	56	50	99.6	112	5.49	10	99.4	107	7.29	70 - 130	20	80 - 120	20
Zinc	37	500	93.9	98	3.99	100	103	106	2.78	70 - 130	20	80 - 120	20
%SS:	98	250	105	112	6.76	250	94	98	3.91	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 35021 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-003A	04/16/08	04/16/08	04/17/08 2:09 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR 6020A

W.O. Sample Matrix: Solid QC Matrix: Soil WorkOrder 0804386

EPA Method 6020A **Extraction SW3050B** **BatchID: 35021** **Spiked Sample ID 0804377-028A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Antimony	ND	50	97.6	102	4.79	10	103	107	4.01	70 - 130	20	80 - 120	20
Arsenic	3.3	50	97.2	102	4.85	10	103	108	4.37	70 - 130	20	80 - 120	20
Barium	140	500	99.3	106	5.28	100	102	105	2.80	70 - 130	20	80 - 120	20
Beryllium	ND	50	87.3	89.8	2.89	10	100	104	3.44	70 - 130	20	80 - 120	20
Cadmium	ND	50	92.5	97.1	4.86	10	102	104	2.24	70 - 130	20	80 - 120	20
Chromium	100	50	105	123	5.69	10	99.3	106	6.72	70 - 130	20	80 - 120	20
Cobalt	11	50	89.3	93.8	3.97	10	102	105	2.90	70 - 130	20	80 - 120	20
Copper	28	50	95.3	105	5.95	10	98.6	105	6.21	70 - 130	20	80 - 120	20
Lead	4.4	50	94.7	101	5.52	10	101	104	2.83	70 - 130	20	80 - 120	20
Mercury	0.14	1.25	94.1	99.8	5.27	0.25	102	103	0.973	70 - 130	20	80 - 120	20
Molybdenum	ND	50	95	99.7	4.85	10	99.5	104	4.73	70 - 130	20	80 - 120	20
Nickel	59	50	103	117	6.17	10	101	107	5.89	70 - 130	20	80 - 120	20
Selenium	ND	50	94.5	96.9	2.43	10	99.9	108	7.41	70 - 130	20	80 - 120	20
Silver	ND	50	88.7	92.8	4.54	10	98.6	102	3.79	70 - 130	20	80 - 120	20
Thallium	ND	50	95.2	101	5.86	10	97.7	102	3.85	70 - 130	20	80 - 120	20
Vanadium	56	50	99.6	112	5.49	10	99.4	107	7.29	70 - 130	20	80 - 120	20
Zinc	37	500	93.9	98	3.99	100	103	106	2.78	70 - 130	20	80 - 120	20
%SS:	98	250	105	112	6.76	250	94	98	3.91	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 35021 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0804386-001A	04/16/08	04/16/08	04/17/08 1:55 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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