CLIENT: LACO Associates
Work Order: 0504594
Project: 4629.02, HPI-Bulk Plant-AST

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-13424** Batch ID: **13424** Test Code: **TPHDIW** Units: **µg/L** Analysis Date **4/29/05 4:09:10 PM** Prep Date **4/29/05**
Client ID: Run ID: **ORGC7_050429A** SeqNo: **502297**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	468.7	50	500	0	93.7%	67	120	0			
N-Tricosane	48.8	0.10	50.0	0	97.5%	70	130	0			

Sample ID **LCSD-13424** Batch ID: **13424** Test Code: **TPHDIW** Units: **µg/L** Analysis Date **4/29/05 4:27:37 PM** Prep Date **4/29/05**
Client ID: Run ID: **ORGC7_050429A** SeqNo: **502298**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	507.3	50	500	0	101%	67	120	469	7.92%	15	
N-Tricosane	51.3	0.10	50.0	0	103%	70	130	48.8	5.17%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0504594

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): SJD

TAT: [ ] 24 Hr [ ] 48 Hr [ ] 5 Day [ ] 5–7 Day
[✓] STD (2–3 Wk) [ ] Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms [ ]
Preliminary: FAX [✓] Verbal [ ] By:
Final Report: FAX [ ] Verbal [ ] By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4629.02
Project Name: HPI - Bulk Plant-AST
Purchase Order Number: task 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: TPHg/BTEX (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd w/SGC (CONTAINER 7, PRESERVATIVE ------)
	4629-MW-3-W	4-26-05	AM	GW	3	1
	4629-MW-9-W				3	1
	4629-MW-10-W				3	1
	4629-MW-11-W				3	1
	4629-MW-14-W				3	1
	4629-MW-17s-W				3	1
	4629-MW-17d-W				3	1
	4629-MW-21-W				3	1
	4629-MW-7-W		PM		3	1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

Cold, intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	4-26-05 4:36 pm		4/26/05 1636

SAMPLE DISPOSAL
[✓] NCL Disposal of Non-Contaminated
[ ] Return [ ] Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0504594

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone: (707) 443-5054
Copies of Report to: LACO; Chris Watt
Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4629.02
Project Name: HPI - Bulk Plant-AST
Purchase Order Number: task 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 1	ANALYSIS: TPHd w/SGC	CONTAINER	PRESERVATIVE
	4629-MW-26-W	4-26-05	AM	GW	3	1	9	b
	4629-MW-31-W				3	1		
	4629-MW-32-W				3	1		
	4629-QCFD				3			
	4629-QCMB				3			
	4629-QCTB		PM		1			

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	4-26-05 4:36 pm		4/26/05 1630

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 3

LACO ASSOCIATES CONSULTING ENGINEERS	PROJECT Well Redevelopment	BY JLS	SHEET NO. 1 of
21 W. 4th Street Eureka, California 95502 707-443-5054	LOCATION 8th St., Fortuna	DATE 4/15/05	
	CLIENT	CHECKED	JOB NO. 4629.02
		DATE 4/15/05	/300

8:00 Loading for site

8:30 Leaving for site

9:00 on site - setting up on MW32

9:30 Serged with solid block for 5min, starting to pump with DHP

11:20 pumped out 8.1 gallons of water, water comming out free of sediment & with a yellowish color to it, Well Redeveloped, deconing & going to lunch & get battery for DTW meter

11:30 off site

12:10 on-site, while @ R-village shell, manager notified me that MW5 had no bolts in lid, I retaped & put new bolts in, setting up on MW31

12:30 Serged with solid block for 5min, starting to pump with DHP

1:20 starting to pump without serging

2:30 pumped out 9.876 gallons of water from MW32, water comming out free of sediment & with a yellowish color to it, Well Redeveloped; deconing

2:50 pumped out 7.623 gallons of water from MW3, water comming out free of sediment & with a yellowish color, Well Redeveloped; deconing & loading

3:15 Repaired well box on MW3, off site

LACO ASSOCIATES
P.O. Box 1023 • Eureka, California 95502 • 707.443.5054

WELL DEVELOPMENT RECORD

SHEET 2 of 4

Project Name: Bulk Plant Fortuna

Project No.: 4629.02

Well ID: MW31

Date Installed:

Contractor: Laco

Development Contractor: Laco

Casing Diameter: 1.5

METHOD OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☒ Pumping ☐ Describe

Equipment decontaminated prior to development ☒ Yes ☐ No

Describe water with alconox & water

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION

Measured Well Depth (B) 15.31 ft.

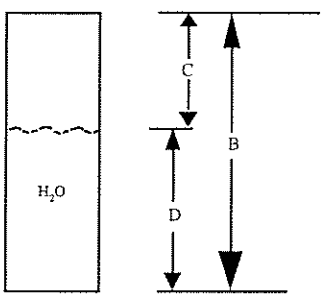
Measured Water Level Depth (C) 3.50 ft.

Length of Static Water Column (D) 15.31 (B) - 3.50 (C) = 11.81 ft.

Casing Water Volume 0.09 (A) x 11.81 (D) = 1.0629 gal

Volume of Water Added to Well During Installation = _____ gal

Total Purge Volume = 8.1 (gal)



Time	Pump Rate	Water Level Depth (ft)	Volume Removed (gal)	pH	Cond (mS/cm)	Temperature F or C	Turbidity (NTU)	Comments
9:35	0.105	6.22	0					OHP w/o Controller
9:50	0.105	6.95	1.575					
10:05	0.102	7.21	1.53					
10:20	0.05	6.65	0.75					
10:35	0.05	6.45	0.75					
10:50	0.0769	6.86	1.154					
11:05	0.078	7.21	1.17					
11:20	0.078	7.25	1.17					

Developer Signature: [signature] Date: 4/15/05

LACO ASSOCIATES
P.O. Box 1023 • Eureka, California 95502 • 707.443.5054

WELL DEVELOPMENT RECORD

SHEET 3 of 4

Project Name: Bulk Plant - Fortuna

Project No.: 4629.02 /

Well ID: MW# 32

Date Installed:

Contractor: Laco

Development Contractor: Laco

Casing Diameter: 1.5"

METHOD OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☒ Pumping ☐ Describe

Equipment decontaminated prior to development ☒ Yes ☐ No

Describe water with alconox + clean water

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION

Measured Well Depth (B) 17.49 ft.

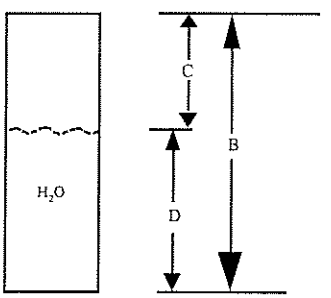
Measured Water Level Depth (C) 4.88 ft.

Length of Static Water Column (D) 17.49 (B) - 4.88 (C) = 12.61 ft.

Casing Water Volume 0.09 (A) x 12.61 (D) = 1.135 gal

Volume of Water Added to Well During Installation = _____ gal

Total Purge Volume = 9.076 (gal)



Time	Pump Rate	Water Level Depth (ft)	Volume Removed (gal)	pH	Cond (mS/cm)	Temperature F or C	Turbidity (NTU)	Comments
12:45	0.0781	10.04	1.172					DHP w/o Controller
13:00	0.0781	10.89	1.172					
13:15	0.0781	11.24	1.172					
13:30	0.0781	11.34	1.172					
13:45	0.0781	11.34	1.172					
14:00	0.0893	10.98	1.34					
14:15	0.0625	10.97	0.938					
14:30	0.0625	10.98	0.938					

Developer Signature: [signature] Date: 4/15/05

LACO ASSOCIATES
P.O. Box 1023 • Eureka, California 95502 • 707.443.5054

WELL DEVELOPMENT RECORD

SHEET 4 of 4

Project Name: Bulk Plant - Fortuna (HPI)
Project No.: 4629.02 1
Well ID: MW #3
Date Installed:
Contractor:
Development Contractor: Laco
Casing Diameter: 4"

METHOD OF DEVELOPMENT

☐ Swabbing ☐ Bailing ☒ Pumping ☐ Describe

Equipment decontaminated prior to development ☒ Yes ☐ No

Describe

CASING VOLUME INFORMATION

Casing ID (inch)	1.0	1.5	2.0	2.2	3.0	4.0	4.3	5.0	6.0	7.0	8.0
Unit Casing Volume (A) (gal/ft)	0.04	0.09	0.16	0.2	0.37	0.65	0.75	1.0	1.5	2.0	2.6

PURGING INFORMATION

Measured Well Depth (B) 19.69 ft.

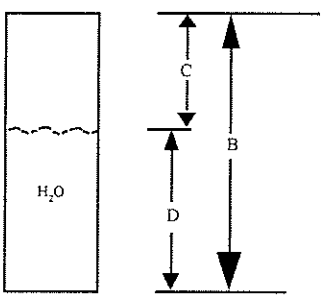
Measured Water Level Depth (C) 4.80 ft.

Length of Static Water Column (D) _____ (B) - _____ (C) = 14.89 ft.

Casing Water Volume 0.65 (A) x 14.89 (D) = 9.68 gal

Volume of Water Added to Well During Installation = _____ gal

Total Purge Volume = 7.623 (gal)



Time	Pump Rate	Water Level Depth (ft)	Volume Removed (gal)	pH	Cond (mS/cm)	Temperature F or C	Turbidity (NTU)	Comments
13:20	0.045	5.24'	0.675					
13:35	0.0781	6.63	1.172					
13:50	0.0391	6.29	0.587					
14:05	0.0329	6.24	0.494					
14:20	0.104	6.18	1.56					
14:35	0.104	6.24	1.56					
14:50	0.105	7.03'	1.575					

Developer Signature: [signature] Date: 4/15/05

Attachment 4

KEY TO ABBREVIATIONS
Former Shell Bulk Plant-AST Area, 400 Eighth Street, Fortuna, California
LACO No. 4629.02; CRWQCB Case No. 1THU116

KEY TO ABBREVIATIONS	
3/4"B	-- Three quarters of an inch diameter bailer
Alk	-- Alkalinity
BTEX	-- Benzene; Toluene; Ethylbenzene; m,p- and o- Xylenes
CO_2	-- Carbon dioxide
COC	-- Chain of custody
Cr	-- Chromium
DHP	-- Down-hole-pump (submersible pump)
DIPE	-- Di-isopropyl Ether
Dis	-- Dissolved
DO	-- Dissolved Oxygen
DTW	-- Depth-to-Water
ECw	-- Electrical Conductivity in water
ETBE	-- Ethyl Tertiary Butyl Ether
Fe	-- Iron
FP	-- Free Product
Mn	-- Manganese
MTBE	-- Methyl Tertiary Butyl Ether
N	-- Nitrogen
NA	-- Not Applicable
ND<50	-- non-detect at reporting limits shown
NO_3	-- Nitrate
NOT ACTIVE	-- Sample not analyzed for parameter during current sampling event
ORP	-- Oxidation Reduction Potential
P	-- Phosphorous
PCP/TCP	-- penta- tetra- tri- chlorophenols
pH	-- Potential of hydrogen
SGC	-- Silica gel cleanup
SO_4	-- Sulfate
T	-- Temperature
T&P	-- Tape and Paste
TAME	-- Tertiary Amyl Methyl Ether
TBA	-- Tetiary Butyl Alcohol
TBF	-- Tertiary Butyl Formate
TIC	-- Total Inorganic Carbon
TOC	-- Total Organic Carbon
Tot	-- Total
TPHd	-- Total Petroluem Hydrocarbons as Diesel
TPHg	-- Total Petroluem Hydrocarbons as Gasoline
TPHk	-- Total Petroluem Hydrocarbons as Kerosene
TPHmo	-- Total Petroluem Hydrocarbons as Motor Oil
TPHs	-- Total Petroluem Hydrocarbons as Solvent
µg/L	-- Micro grams per liter (parts per billion)

***Note that not all abbreviations in this key are used in the report.

Attachment 5

EPA 8260B

lorth Coast Laboratories Ltd.
680 W. End Road
rcata, CA 95521

ttn: Loretta Tomlin
roject: 0106100-1A
ample ID: 3472 MW1
ample Collection Date: 6/1/01

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

ARF: 35576
APPL ID AP17625
QCG: $8260-010614AH-36588

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
PA 8260B	1,1,1,2-Tetrachloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,1,1-Trichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,1,2,2-Tetrachloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,1,2-Trichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,1-Dichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,1-Dichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,2-Dichlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,2-Dichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,2-Dichloropropane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,3-Dichlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1,4-Dichlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	1H-Indene, 2,3-dihydro-1-methyl-	65	TIC	ug/L	6/14/01	6/14/01
PA 8260B	1H-Indene, 2,3-dihydro-4-methyl-	60	TIC	ug/L	6/14/01	6/14/01
PA 8260B	1H-Indene, 2,3-dihydro-5-methyl-	23	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Benzene	12	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Benzene, (2-methyl-1-propenyl)-	26	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Benzene, propyl-	30	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Bromobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Bromodichloromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Bromoform	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Bromomethane	Not detected	1	ug/L	6/14/01	6/14/01
PA 8260B	Carbon tetrachloride	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Chlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Chloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Chloroform	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Chloromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	cis-1,2-Dichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	cis-1,3-Dichloropropene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Cyclohexane	130	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclohexane, 1-methyl	58	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclohexane, methyl	180	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclohexene, 4-methyl	22	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclopentane	43	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclopentane, 1,2,3	21	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclopentane, 1,2-di	76	TIC	ug/L	6/14/01	6/14/01

Run #: 0614H10
Instrument: HEWEY
Sequence: H010608
Dilution Factor: 1
Initials: RP

Printed: 6/18/01 1:57:45 PM

EPA 8260B

North Coast Laboratories Ltd.
5680 W. End Road
Arcata, CA 95521

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Attn: Loretta Tomlin
Project: 0106100-1A
Sample ID: 3472 MW1
Sample Collection Date: 6/1/01

ARF: 35576
APPL ID AP17625
QCG: $8260-010614AH-36588

Method	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
PA 8260B	Cyclopentane, 1,3-di	50	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclopentane, ethyl	38	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Cyclopentane, methyl	170	TIC	ug/L	6/14/01	6/14/01
PA 8260B	Dibromochloromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Dibromomethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Dichlorodifluoromethane	Not detected	1	ug/L	6/14/01	6/14/01
PA 8260B	Ethylbenzene	25	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Freon 113	Not detected	1	ug/L	6/14/01	6/14/01
PA 8260B	Methylene chloride	Not detected	5	ug/L	6/14/01	6/14/01
PA 8260B	Tetrachloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Toluene	0.57	0.5	ug/L	6/14/01	6/14/01
PA 8260B	trans-1,2-Dichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	trans-1,3-Dichloropropene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Trichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Trichlorofluoromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Vinyl chloride	Not detected	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Xylenes	45	0.5	ug/L	6/14/01	6/14/01
PA 8260B	Surrogate recovery (BFB)	105	75-125	%	6/14/01	6/14/01
PA 8260B	Surrogate recovery (DBFM)	99.9	75-125	%	6/14/01	6/14/01
PA 8260B	Surrogate recovery (DCA)	102	75-125	%	6/14/01	6/14/01
PA 8260B	Surrogate recovery (TOL)	92.3	75-125	%	6/14/01	6/14/01

Run #: 0614H10
Instrument: HEWEY
Sequence: H010608
Dilution Factor: 1
Initials: RP

Printed: 6/18/01 1:57:45 PM

Method Blank
EPA 8260B

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Blank Name/QCG: **010614W - 36588**
Batch ID: $8260-010614AH

nple Type	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
NK	1,1,1,2-Tetrachloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,1,1-Trichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,1,2,2-Tetrachloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,1,2-Trichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,1-Dichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,1-Dichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,2-Dichlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,2-Dichloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,2-Dichloropropane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,3-Dichlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	1,4-Dichlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Benzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Bromobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Bromodichloromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Bromoform	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Bromomethane	Not detected	1	ug/L	6/14/01	6/14/01
NK	Carbon tetrachloride	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Chlorobenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Chloroethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Chloroform	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Chloromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	cis-1,2-Dichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	cis-1,3-Dichloropropene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Dibromochloromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Dibromomethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Dichlorodifluoromethane	Not detected	1	ug/L	6/14/01	6/14/01
NK	Ethylbenzene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Freon 113	Not detected	1	ug/L	6/14/01	6/14/01
NK	Methylene chloride	Not detected	5	ug/L	6/14/01	6/14/01
NK	Tetrachloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Toluene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	trans-1,2-Dichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	trans-1,3-Dichloropropene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Trichloroethene	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Trichlorofluoromethane	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Vinyl chloride	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Xylenes	Not detected	0.5	ug/L	6/14/01	6/14/01
NK	Surrogate recovery (BFB)	100	75-125	%	6/14/01	6/14/01
NK	Surrogate recovery (DBFM)	97.5	75-125	%	6/14/01	6/14/01

Run #: 0614H04
Instrument: HEWEY
Sequence: H010608
Initials: RP

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Method Blank
EPA 8260B

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Blank Name/QCG: **010614W - 36588**
Batch ID: $8260-010614AH

mple Type	Analyte	Result	PQL	Units	Extraction Date	Analysis Date
NK	Surrogate recovery (DCA)	98.2	75-125	%	6/14/01	6/14/01
NK	Surrogate recovery (TOL)	93.1	75-125	%	6/14/01	6/14/01

Run #: 0614H04
Instrument: HEWEY
Sequence: H010608
Initials: RP

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Laboratory Control Spike Recoveries

EPA 8260B

PPL ID: **010614W-17625 LCS - 36588**
atch ID: $8260-010614AH

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
,2-Tetrachloroethane	10.00	9.96	9.68	99.6	96.8	75-125	2.9	25
-Trichloroethane	10.00	10.0	10.2	100	102	75-125	2.0	25
,2-Tetrachloroethane	10.00	9.50	9.20	95.0	92.0	75-125	3.2	25
-Trichloroethane	10.00	9.85	10.1	98.5	101	75-125	2.5	25
Dichloroethane	10.00	10.7	10.6	107	106	75-125	0.94	25
Dichloroethene	10.00	10.0	10.3	100	103	75-125	3.0	25
Dichlorobenzene	10.00	9.97	9.57	99.7	95.7	75-125	4.1	25
Dichloroethane	10.00	10.0	9.82	100	98.2	75-125	1.8	25
Dichloropropane	10.00	10.2	10.1	102	101	75-125	0.99	25
Dichlorobenzene	10.00	9.95	9.74	99.5	97.4	75-125	2.1	25
Dichlorobenzene	10.00	9.79	9.60	97.9	96.0	75-125	2.0	25
zene	10.00	10.0	9.84	100	98.4	75-125	1.6	25
nobenzene	10.00	10.1	9.66	101	96.6	75-125	4.5	25
nodichloromethane	10.00	10.2	10.0	102	100	75-125	2.0	25
noform	10.00	9.72	9.55	97.2	95.5	75-125	1.8	25
nomethane	10.00	8.63	7.81	86.3	78.1	75-125	10.0	25
on tetrachloride	10.00	10.1	10.2	101	102	75-125	0.99	25
robenzene	10.00	9.90	9.68	99.0	96.8	75-125	2.2	25
roethane	10.00	9.40	9.35	94.0	93.5	75-125	0.53	25
roform	10.00	10.7	10.4	107	104	75-125	2.8	25
romethane	10.00	7.86	7.97	78.6	79.7	75-125	1.4	25
,2-Dichloroethene	10.00	10.1	9.81	101	98.1	75-125	2.9	25
,3-Dichloropropene	10.00	10.2	10.1	102	101	75-125	0.99	25
omochloromethane	10.00	9.82	9.61	98.2	96.1	75-125	2.2	25
omomethane	10.00	10.0	9.92	100	99.2	75-125	0.80	25

omments: _____

Primary	SPK	DUP
Extraction Date :	6/14/01	6/14/01
Analysis Date :	6/14/01	6/14/01
Instrument :	HEWEY	HEWEY
Run :	0614H02	0614H03
Analyst :	RP	

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Laboratory Control Spike Recoveries
EPA 8260B

PPL ID: **010614W-17625 LCS - 36588**
atch ID: $8260-010614AH

APPL Inc.
4203 West Swift Avenue
Fresno, CA 93722

Compound Name	Spike Lvl ug/L	SPK Result ug/L	DUP Result ug/L	SPK % Recovery	DUP % Recovery	Recovery Limits	RPD %	RPD Limits
orodifluoromethane	10.00	8.27	8.01	82.7	80.1	75-125	3.2	25
benzene	10.00	9.92	9.72	99.2	97.2	75-125	2.0	25
n 113	10.00	10.0	10.3	100	103	75-125	3.0	25
ylene chloride	10.00	9.80	9.78	98.0	97.8	75-125	0.20	25
chloroethene	10.00	9.48	9.55	94.8	95.5	75-125	0.74	25
ene	10.00	10.2	10.1	102	101	75-125	0.99	25
-1,2-Dichloroethene	10.00	9.62	9.48	96.2	94.8	75-125	1.5	25
-1,3-Dichloropropene	10.00	10.1	9.97	101	99.7	75-125	1.3	25
loroethene	10.00	9.78	9.80	97.8	98.0	75-125	0.20	25
lorofluoromethane	10.00	9.78	9.71	97.8	97.1	75-125	0.72	25
chloride	10.00	9.17	9.12	91.7	91.2	75-125	0.55	25
nes	30.00	30.1	29.5	100	98.3	75-125	2.0	25
ogate recovery (BFB)	30.888	30.8	31.1	99.7	101	75-125		
ogate recovery (DBFM)	31.249	30.3	30.6	97.0	97.9	75-125		
ogate recovery (DCA)	29.710	28.2	28.1	94.9	94.6	75-125		
ogate recovery (TOL)	31.754	30.3	29.9	95.4	94.2	75-125		

omments:

Primary	SPK	DUP
Extraction Date :	6/14/01	6/14/01
Analysis Date :	6/14/01	6/14/01
Instrument :	HEWEY	HEWEY
Run :	0614H02	0614H03
Analyst :	RP	

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