APPENDIX L-1

Hazardous Materials/Landfill Documentation - A Street Alignment, Geophysical Investigation, Memorandum from Wood Rodgers (1/28/14); A Street Alignment, WMUA Landfill Extents Geophysical Investigation, Memorandum from Wood Rodgers (12/4/13); Groundwater Sampling Results; Updated 28th Street Landfill Post-Closure Permit

TABLE I

GROUNDWATER MONITORING PROGRAM

Parameter	Units	Frequency
Field Parameters		
Groundwater Elevation	Ft. & hundredths, M.S.L.	Quarterly
Temperature	^{o}C	Semi-Annual
Electrical Conductivity	µmhos/cm	Semi-Annual
pH	pH units	Semi-Annual
Turbidity	Turbidity units	Semi-Annual
Monitoring Parameters		
Total Dissolved Solids (TDS)	mg/L	Semi-Annual
Chloride	mg/L	Semi-Annual
Sulfate	mg/L	Semi-Annual
Nitrate as Nitrogen	mg/L	Semi-Annual
Bicarbonate	mg/L	Semi-Annual
Chemical Oxygen Demand	mg/L	Semi-Annual
Iron, Total	mg/L	Semi-Annual
Volatile Organic Compounds[1]	µg/L	Semi-Annual
Constituents of Concern		
Carbonate	mg/L	5 years
Total Alkalinity	mg/L	5 years
Total Organic Carbon	mg/L	5 years
Inorganics (dissolved)[1]	mg/L	5 years
Semi-Volatile Organic Compounds[1]	µg/L	5 years
Organochlorine Pesticides[1]	µg/L	5 years
Polychlorinated Biphenyls (PCBs)[1]	µg/L	5 years
Organophosphorus Compounds[1]	µg/L	5 years

1. See Table IV.

TABLE II

LEACHATE MONITORING PROGRAM

Parameter	Units	Frequency
Field Parameters		
Total Flow (LCRS sump/seeps only)	gallons	Monthly
Flow Rate (LCRS sump/seeps only)	gallons/day	Monthly
Depth (DW-1 only)	feet/inches	Semi-Annual
Elevation (DW-1 only)	feet MSL	Semi-Annual
Electrical Conductivity	µmhos/cm	Semi-Annual
pH	pH units	Semi-Annual
Monitoring Parameters		
Total Dissolved Solids (TDS)	mg/L	Semi-Annual
Chloride	mg/L	Semi-Annual
Sulfate	mg/L	Semi-Annual
Nitrate as Nitrogen	mg/L	Semi-Annual
Bicarbonate	mg/L	Semi-Annual
Chemical Oxygen Demand	mg/L	Semi-Annual
Iron, Total	mg/L	Semi-Annual
Constituents of Concern		
Carbonate	mg/L	Annual
Total Alkalinity	mg/L	Annual
Total Organic Carbon	mg/L	Annual
Inorganics (dissolved)[1]	mg/L	Annual
Volatile Organic Compounds[1]	µg/L	Annual
Semi-Volatile Organic Compounds[1]	µg/L	Annual
Organochlorine Pesticides[1]	µg/L	Annual
Polychlorinated Biphenyls (PCBs)[1]	µg/L	Annual
Organophosphorus Compounds[1]	µg/L	Annual

1. See Table IV.

TABLE III

SURFACE WATER MONITORING PROGRAM

Parameter	Units	Frequency
Field Parameters		
Temperature	°C	Twice each winter[1]
Electrical Conductivity	µmhos/cm	Twice each winter[1]
pH	pH units	Twice each winter[1]
Turbidity	Turbidity units	Twice each winter[1]
Monitoring Parameters		
Total Suspended Solids	mg/L	Twice each winter[1]
Total Dissolved Solids (TDS)	mg/L	Twice each winter[1]
Chloride	mg/L	Twice each winter[1]
Sulfate	mg/L	Twice each winter[1]
Nitrate as Nitrogen	mg/L	Twice each winter[1]
Bicarbonate Alkalinity	mg/L	Twice each winter[1]
Constituents of Concern		
Carbonate	mg/L	Annual
Chemical Oxygen Demand	mg/L	Annual
Total Organic Carbon	mg/L	Annual
Total Alkalinity	mg/L	Annual
Dissolved Oxygen	mg/L	Annual
Oil and Grease	mg/L	Annual
Inorganics (dissolved)[2]	mg/L	Annual

1. The Discharger shall collect surface water samples after the first storm of the rainy season that produces significant flow and during at least one other storm event in the wet season.
2. See Table IV

TABLE IV

CONSTITUENTS OF CONCERN & APPROVED USEPA ANALYTICAL METHODS

Field Parameters	**Method**
pH	150.1
Electrical Conductivity	2510

General Minerals	**Method**
Bicarbonate	2310B
Chloride	300 (anion scan)
Nitrate – Nitrogen	300 (anion scan)
Sulfate	300 (anion scan)
Total Dissolved Solids (TDS)	2540C

Inorganics (dissolved):	**Method**
Aluminum	200.7/6010
Antimony	200.7/7041
Barium	200.7/6010
Beryllium	200.7/6010
Cadmium	200.7/7131A
Chromium	200.7/6010
Chromium VI^{+}	7199/1636
Cobalt	200.7/6010
Copper	200.7/6010
Silver	200.7/6010
Tin	200.7/6010
Vanadium	200.7/6010
Zinc	200.7/6010
Iron	200.7/6010
Manganese	200.7/6010
Arsenic	200.9/200.8
Lead	200.9/200.8
Mercury	7470A
Nickel	200.9/200.8
Selenium	200.9/200.8
Thallium	200.9/200.8
Cyanide	9010
Sulfide	9030

Other Parameters	**Method**
Total Organic Carbon	415.1
Total Alkalinity	310.1
Total Suspended Solids	160.1
Bicarbonate Alkalinity	130.2
Chemical Oxygen Demand	410.4
Dissolved Oxygen	360.1/360.2
Oil and Grease	5520/1664

Volatile Organic Compounds (Method 8260B):

Acetone
Acetonitrile
Acrolein
Acrylonitrile
Allyl chloride (3-Chloropropene)
Tert-Amyl ethyl ether
Tert-Amyl methyl ether
Benzene
Bromobenzene
Bromochloromethane
Bromodichloromethane
Bromoform (Tribromomethane)
Tert-Butyl alcohol
n-Butlybenzene
sec-Butlybenzene
tert-Butlybenzene
tert-Butyl ethyl ether
Carbon disulfide
Carbon tetrachloride
Chlorobenzene
Chloroethane (Ethyl chloride)
Chloroform (Trichloromethane)
Chloroprene
Dibromochloromethane (Chlorodibromomethane)
1,2-Dibromo-3-chloropropane (DBCP)
1,2-Dibromoethane (Ethylene dibromide; EDB)
o-Dichlorobenzene (1,2-Dichlorobenzene)
m-Dichlorobenzene (1,3-Dichlorobenzene)
p-Dichlorobenzene (1,4-Dichlorobenzene)
trans- l ,4-Dichloro-2-butene
Dichlorodifluoromethane (CFC-12)
1,1-Dichloroethane (Ethylidene chloride)
1,2-Dichloroethane (Ethylene dichloride)
1,1 -Dichloroethylene (1,1 -Dichloroethene; Vinylidene chloride)
cis- 1,2-Dichloroethylene (cis- 1,2-Dichloroethene)
trans-1,2-Dichloroethylene (trans-1,2-Dichloroethene)
1,2-Dichloropropane (Propylene dichloride)
1,3-Dichloropropane
2,2-Dichloropropene
1,1-Dichloropropene
cis- 1,3-Dichloropropene
trans- 1,3-Dichloropropene
Ethylbenzene
Ethyl methacrylate
Hexachlorobutadiene
Hexachloroethane
2-Hexanone (Methyl butyl ketone)
Iodomethane (Methyl iodide)
Isobutyl alcohol
di-Isopropyl ether
Methacrylonitrile

Methyl bromide (Bromomethene)
Methylene bromide (Dibromomethane)
Methylene chloride (Dichloromethane)
Methyl chloride (Chloromethane)
Methyl ethyl ketone (MEK: 2-Butanone)
4-Methyl-2-pentanone (Methyl isobutylketone)
Methyl tert-butyl ether (MtBE)
Naphthalene
2-Nitropropane
n-Propylbenzene
Propionitrile
Styrene
1,1,1,2-Tetrachloroethane
1,1.2,2-Tetrachloroethane
Tetrachloroethylene (Tetrachloroethene; Perchloroethylene)
Toluene
1,2,4-Trichlorobenzene
1,1,1-Trichloethane (Methylchloroforrn)
1,1,2-Trichloroethane
Trichloroethylene (Trichloroethene)
Trichlorofluoromethane (CFC- 11)
1,2,3-Trichloropropane
1,2,4-Trimethylbenzene
1,3,5-Trimethylbenzene
Vinyl chloride
Xylenes (total)

Semi-Volatile Organic Compounds (Method 8270 - base, neutral, & acid extractables):

Acenaphthene
Acenaphthylene
Acetophenone
2-Acetylaminofluorene (2-AAF)
4-Aminobiphenyl
Anthracene
Benzo[a]anthracene (Benzanthracene)
Benzo[b]fluoranthene
Benzo[k]fluoranthene
Benzo[g,h,i]perylene
Benzo[a]pyrene
Benzyl alcohol
Bis(2-ethylhexyl) phthalate
Bis(2-chloroethoxy)methane
Bis(2-chloroethyl) ether (Dichloroethyl ether)
Bis(2-chloro-1-methyethyl) ether (Bis(2-chloroisopropyl) ether; DCIP)
4-Bromophenyl phenyl ether
Butyl benzyl phthalate (Benzyl butyl phthalate)
p-Chloroaniline
p-Chloro-m-cresol (4-Chloro-3-methylphenol)
2-Chloronaphthalene
2-Chlorophenol
4-Chlorophenyl phenyl ether

Chrysene
o-Cresol (2-methylphenol)
m-Cresol (3-methylphenol)
p-Cresol (4-methylphenol)
Dibenz[a,h]anthracene
Dibenzofuran
Di-n-butyl phthalate
3,3'-Dichlorobenzidine
2,4-Dichlorophenol
2,6-Dichlorophenol
Diethyl phthalate
p-(Dimethylamino)azobenzene
7,12-Dimethylbenz[a]anthracene
3,3'-Dimethylbenzidine
2,4-Dimehtylphenol (m-Xylenol)
Dimethyl phthalate
m-Dinitrobenzene
4,6-Dinitro-o-cresol (4,6-Dinitro-2-methylphenol)
2,4-Dinitrophenol
2,4-Dinitrotoluene
2,6-Dinitrotoluene
Di-n-octyl phthalate
Diphenylamine
Ethyl methanesulfonate
Famphur
Fluoranthene
Fluorene
Hexachlorobenzene
Hexachloropropene
Indeno(1,2,3-c,d)pyrene
Isophorone
Isosafrole
Kepone
Methapyrilene
3-Methylcholanthrene
Methyl methanesulfonate
2-Methylnaphthalene
1,4-Naphthoquinone
1-Naphthylamine
2-Naphthylamine
o-Nitroaniline (2-Nitroaniline)
m-Nitroaniline (3-Nitroaniline)
p-Nitroaniline (4-Nitroaniline)
Nitrobenzene
o-Nitrophenol (2-Nitrophenol)
p-Nitrophenol (4-Nitrophenol)
N-Nitrosodi-n-butylamine (Di-n-butylnitrosamine)
N-Nitrosodiethylamine (Diethylnitrosamine)
N-Nitrosodimethylamine (Dimethylnitrosamine)
N-Nitrosodiphenylamine (Diphenylnitrosamine)
N-Nitrosodipropylamine (N-Nitroso-N-dipropylamine; Di-n-propylnitrosamine)
N-Nitrosomethylethylamine (Methylethylnitrosamine)

N-Nitrosopiperidine
N-Nitrosospyrrolidine
5-Nitro-o-toluidine
Pentachlorobenzene
Pentachloronitrobenzene (PCNB)
Pentachlorophenol
Phenacetin
Phenanthrene
Phenol
p-Phenylenediamine
Polychlorinated biphenyls (PCBs; Aroclors)
Pronamide
Pyrene
Safrole
1,2,4,5-Tetrachlorobenzene
2,3,4,6-Tetrachlorophenol
o-Toluidine
2,4,5-Trichlorophenol
0,0,0-Triethyl phosphorothioate
sym-Trinitrobenzene

Organochlorine Pesticides (Method 8081A):

Aldrin
α-BHC
β-BHC
γ-BHC (Lindane)
δ-BHC
Chlorobenzilate
α-Chlordane
γ-Chlordane
Chlodane – not otherwise specified
DBCP
4,4'-DDD
4,4'-DDE
4,4'-DDT
Diallate
Dieldrin
Endosulfan I
Endosulfan II
Endosulfan sulfate
Endrin
Endrin aldehyde
Endrin ketone
Heptachlor
Heptachlor epoxide
Hexachlorocyclopentadiene
Isodrin
Methoxychlor
Toxaphene

Polychlorinated Biphenyls (PCBs) (Method 8082):

Aroclor 1016
Aroclor 1221
Aroclor 1232
Aroclor 1242
Aroclor 1248
Aroclor 1254
Aroclor 1260

Organophosphorus Compounds (Method 8141A):

Chlorpyrifos
Diazinon
Dimethioate
Disulfoton
Ethion
Famphur
Malathion
Parathion
Parathion-ethyl
Parathion-methyl
Phorate

Chlorinated Herbicides (USEPA Method 8151A):

2,4-D (2,4-Dichlorophenoxyacetic acid)
Dicamba
Dinoseb (DNBP; 2-sec-Butyl-4,6-dinitrophenol)
MCPA
MCPP
Silvex (2,4,5-Trichlorophenoxypropionic acid; 2,4,5-TP)
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)
Pentachlorophenol

WOOD RODGERS

January 28, 2014
Project No. 1262.019

Mr. Steve Harriman, PE
City of Sacramento – Department of General Services
5730 24th Street, Building 1
Sacramento, CA 95822

Re: McKinley Village
A Street Alignment – WMUA Landfill Extents
Geophysical Investigation

Dear Mr. Harriman,

Wood Rodgers has advanced test pits within the proposed A Street Improvement, as presented in our Right-of-Entry, dated January 9, 2014. The following summarizes Wood Rodgers findings and presents our proposed plan for the roadway improvement.

FINDINGS

To supplement the findings of the geophysical surveys performed for the A Street improvements (discussed in our December 4, 2013 letter, and attached for reference) ten test pits were advanced within and approximately 50-100 feet from the proposed A Street improvement. Approximate test pit locations are indicated on the attached Plate A-1. All of the material encountered in proximity to the roadway alignment either consisted of sand fill or construction rubble fill (concrete with limited construction debris), which is suitable for supporting the planned roadway. No municipal waste was found within the alignment. It is our opinion that the existing fill does not present any construction limitations for the proposed roadway improvement.

One exploration, approximately 50 feet south of the proposed alignment, presented municipal solid waste (MSW) at a depth of approximately 4 feet. This was the sole evidence of MSW, and it is considered anomalous. Previous geophysical surveys along the A Street improvements indicated deposits became more competent (i.e. higher shear wave velocity) with depth further indicating the potential for MSW would be limited. Because municipal waste was not encountered proximate to the roadway, it is not considered a limitation.

The inert fill material encountered in our test pits was difficult to excavate, and appeared to be well compacted. When comparing the previously measured shear wave velocities, the underlying fill material would be considered relatively stiff, which indicates a lower potential for long-term settlement.

Based on Wood Rodgers findings, it is our opinion the structural capacity of the underlying materials is suitable for supporting the proposed improvements to A Street. Specific recommendations for the subgrade preparation and grading of the alignment, along with recommended structural pavement sections will be discussed and presented in our forthcoming geotechnical design report.

PROPOSED PLAN

Based on our findings, no significant changes are recommended to our previously proposed A Street plan presented in our December 4, 2013 letter (attached). Civil design considerations would establish that underground facilities would be placed as shallow as possible and would be limited to water for irrigation purposes and electrical conduits that would provide power to streetlights. Because the fill encountered beneath the alignment consisted of construction rubble and sand, separated sidewalks with a landscape planting strip on both sides of the street are still desirable. We appreciate the final construction plans for the A Street improvements will be subject to the approval of the City of Sacramento Public Works Department and review by the City General Services/Landfill staff.

We are available to meet to discuss our findings if necessary.

Sincerely,

WOOD RODGERS, INCORPORATED

Tim Crush, PE
Vice President

Mischelle J. Smith, PE, GE
RE Number 2892
Expires 3/31/15

Attachment(s):

Wood Rodgers December 4, 2013 Letter

Plate A-1 Exhibit

Attachment 1

WOOD RODGERS

December 4, 2013
Project No. 1262.019

Mr. Steve Harriman, PE
City of Sacramento – Department of General Services
5730 24th Street, Building 1
Sacramento, CA 95822

Re: McKinley Village
A Street Alignment – WMUA Landfill Extents
Geophysical Investigation

Dear Mr. Harriman,

We have performed our geophysical assessment of the proposed A Street alignment as presented in our Right of Entry dated October 29, 2013. Our findings are summarized on the following pages for your consideration. In short, the boundary of the landfill proximate to the alignment was delineated to occur just south of the existing concrete detention basin. However, in lieu of borings to complete our work plan, we propose advancing three test pits along the proposed alignment to better assess our geophysical findings and to obtain soil samples for roadbed subgrade assessment. Advancing test pits will complete the work discussed in the Right of Entry Agreement and further characterize whether any design features are necessary for the improvements to A Street.

FINDINGS

To delineate the limits of WMUA as it relates to the proposed A Street alignment, several geophysical surveys were performed within and around the A Street corridor. The geophysical method selected for this purpose is known as ReMi ™. As further described in our October 29, 2013 work plan, ReMi relies on ambient noise to generate Rayleigh waves in the soil profile. The wave signatures are analyzed and converted to shear wave velocities which can then be used to characterize the stiffness of the subsurface units. Variations in measured shear wave velocity can be used as a means to differentiate materials and detect anomalies. The use of shear wave velocities to characterize subsurface profiles is a readily-acceptable protocol, and its use is most notable through the International Building Code and determination of Site Class.

The ReMi ™ analysis method consists of establishing an array of geophones spaced uniformly along a linear alignment; the depth of analysis is a function of the spacing of the geophones. For our purposes, a geophone spacing of 10 feet was adopted which would provide an analysis window approximating 40 feet. Initially, two 'marker' surveys were performed: one along the railroad to establish the shear wave velocity profile of the native soils (Array 1), and one approximately 800 feet to the north to establish the shear wave velocity profile of the landfill material (Array 10). **Figure 1** shows the approximate location of both marker surveys and graphical depictions of the measured velocities.

Profile 10 indicates a cap of much lower shear wave velocity (< 400 fps) than that noted for the native soils in Profile 1 (~750 fps), and therefore was assumed to be indicative of the landfill proper. The black, dashed line in **Figure 1** presents our assessment of the landfill limits based on the velocity profiles determined from our ReMi™ program.

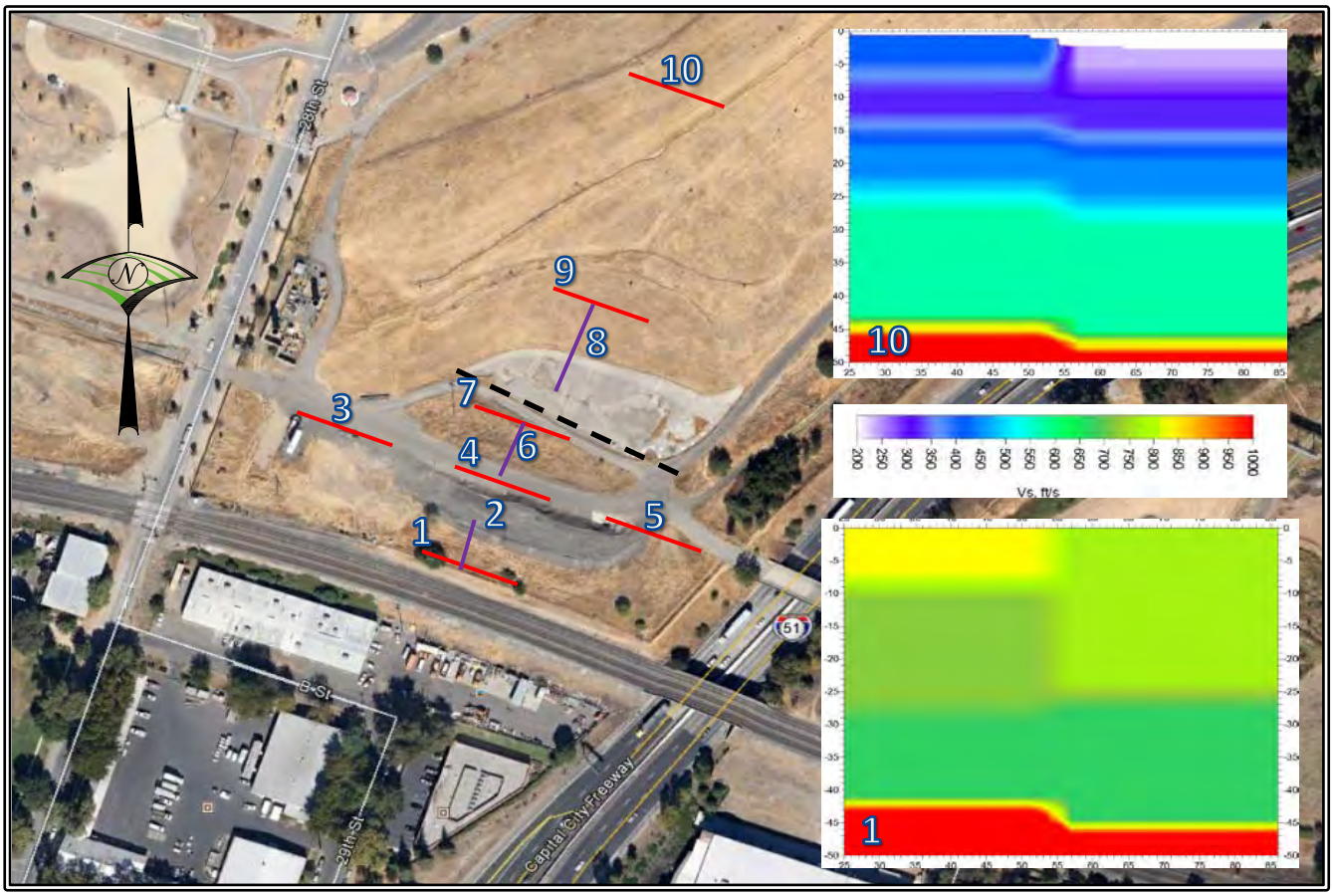

FIGURE 1 – Approximate Location of Surveys and Marker Profiles for Native Soils (1) and Land Fill (10)

PROPOSED PLAN

As part of our original geotechnical program, we had proposed to advance two borings along the A Street alignment. The City of Sacramento has expressed the desire for three exploration locations. Based on our review of the ReMi profiles along the A Street alignment, it is our opinion that the additional exploration would aid in final assessments of fill locations and depths, and we concur with the City's request. In addition, in lieu of borings we would like to propose advancing test pits. The trench wall of a test pit provides a much larger window for viewing subgrade conditions and would serve as a means to validate our geophysical screening protocol. As previously proposed, soil samples would be obtained for design of structural pavement sections and trenching considerations.

The A Street improvements will be implemented within the existing A Street right-of-way beginning at 28th Street and extending within the approximate alignment of the existing access road to the existing A Street Bridge overcrossing of Business-80 (see **Exhibit A**). The proposed A Street will be constructed as a 57-foot minor collector consisting of two 11-foot travel lanes, two 6-foot bike lanes, curbs/gutters, planters and sidewalks (see street section **Exhibit A**). The A Street pavement width will transition near the A Street Bridge to match the existing pavement width on the A Street Bridge. The A Street Extension will include security fencing and driveway access with gates consistent with the needs of the existing landfill. An additional three feet of landscaping between the sidewalks and landfill security fencing will also be included. Civil design considerations would establish that underground facilities would be placed as shallow as possible and would be limited to water for irrigation purposes and electrical conduits that would provide power to streetlights. In addition, since the A Street corridor would be clear of the landfill limits, the developer proposes separated sidewalks with a landscape planting strip on both sides of the street. The planter strips would be depressed to handle roadway drainage from A Street with curb cuts spaced accordingly to allow the gutters to flow into the planters without affecting the separated sidewalks. The planters would be approximately 6.5 feet wide to accommodate tree planting. No sewer facilities would be required. The City and developer may also provide landscaping, including trees, on the east side of 28th Street between A Street and the UPRR tracks. The final A Street extension construction plans will be subject to the approval of the City of Sacramento Public Works Department and review by the City General Services/Landfill staff.

We are available to meet to discuss our findings if necessary. If our findings to date are satisfactory, we would like to secure your permission to proceed with the exploratory phase of our investigation and, subject to the findings of that investigation, with the plan outlined above.

Sincerely,

WOOD RODGERS, INCORPORATED

Tim Crush, PE
Principal

Mischelle J. Smith, PE
Associate
GE 2892
Expires 3/31/15

Attachment

Attachment 2

PLATE A-1
AERIAL VIEW AND
APPROXIMATE TEST PIT LOCATIONS
MCKINLEY VILLAGE A STREET IMPROVEMENTS
SACRAMENTO, CA
JANUARY, 2014
NOTES

NORTH

0 100 200
FEET

1262.019

WOOD RODGERS

J:\Gis\MiscShapefiles\McKinleyVillage\a_street_boring_20140129_V1.mxd 1/29/2014 3:11:44 PM eford

Sequoia
Analytical

819 Striker Ave Ste 8
Sacramento, CA 95834
(916) 921-9600
FAX (916) 921-0100
www.sequoialabs.com

30 December, 2004

John Olesen
City of Sacramento - Meadowview
2812 Meadowview Rd.
Sacramento, CA 95832

RE: Sac City Landfill (Table I)
Work Order: S412315

Enclosed are the results of analyses for samples received by the laboratory on 12/13/04 16:10. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Lito Diaz
QA Manager

CA ELAP Certificate #1624

Sequoia Analytical

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
C-11D	S412315-01	Water	12/13/04 13:20	12/13/04 16:10
C-11S	S412315-02	Water	12/13/04 13:52	12/13/04 16:10

Sequoia Analytical

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City of Sacramento - Meadowview 2812 Meadowview Rd. Sacramento CA, 95832	Project:Sac City Landfill (Table I) Project Number:N/A Project Manager:John Olesen	S412315 **Reported:** 12/30/04 15:51

Total Metals by EPA 200 Series Methods
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-11D (S412315-01) Water Sampled: 12/13/04 13:20 Received: 12/13/04 16:10										
Iron	**0.036**	0.0019	0.010	mg/l	1	4120266	12/21/04	12/28/04	EPA 200.7	
C-11S (S412315-02) Water Sampled: 12/13/04 13:52 Received: 12/13/04 16:10										
Iron	**51**	0.0019	0.010	mg/l	1	4120266	12/21/04	12/28/04	EPA 200.7	

Sequoia Analytical

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Sacramento, CA 95834
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FAX (916) 921-0100
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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-11D (S412315-01) Water Sampled: 12/13/04 13:20 Received: 12/13/04 16:10										
2-Butanone	ND	0.14	2.0	ug/l	1	4120326	12/23/04	12/24/04	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.22	0.50	"	"	"	"	"	"	
2-Hexanone	ND	0.26	2.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.17	2.0	"	"	"	"	"	"	
Acetone	ND	0.52	2.0	"	"	"	"	"	"	
Acetonitrile	ND	2.4	5.0	"	"	"	"	"	"	
Acrolein	ND	0.70	5.0	"	"	"	"	"	"	
Acrylonitrile	ND	0.26	2.0	"	"	"	"	"	"	
Allyl chloride	ND	0.14	0.50	"	"	"	"	"	"	
Carbon disulfide	ND	0.29	0.50	"	"	"	"	"	"	
Chloroprene	ND	0.10	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.11	0.50	"	"	"	"	"	"	
Freon 113	ND	0.25	0.50	"	"	"	"	"	"	
Iodomethane	ND	0.036	0.50	"	"	"	"	"	"	
Isobutanol	ND	0.61	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	0.38	0.50	"	"	"	"	"	"	
Methacrylonitrile	ND	0.73	1.0	"	"	"	"	"	"	
Methyl methacrylate	ND	0.20	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.15	0.50	"	"	"	"	"	"	
Propionitrile	ND	2.7	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	0.50	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	0.42	0.50	"	"	"	"	"	"	
Vinyl acetate	ND	0.94	2.0	"	"	"	"	"	"	
Benzene	ND	0.28	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.39	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.42	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.25	0.50	"	"	"	"	"	"	
Bromoform	ND	0.18	0.50	"	"	"	"	"	"	
Bromomethane	**1.4**	0.61	1.0	"	"	"	"	"	"	
n-Butylbenzene	ND	0.38	0.50	"	"	"	"	"	"	
sec-Butylbenzene	ND	0.36	0.50	"	"	"	"	"	"	
tert-Butylbenzene	ND	0.35	0.50	"	"	"	"	"	"	
Carbon tetrachloride	ND	0.37	0.50	"	"	"	"	"	"	
Chlorobenzene	ND	0.32	0.50	"	"	"	"	"	"	
Chloroethane	ND	0.31	1.0	"	"	"	"	"	"	
Chloroform	ND	0.37	0.50	"	"	"	"	"	"	
Chloromethane	**1.5**	0.18	1.0	"	"	"	"	"	"	
2-Chlorotoluene	ND	0.33	0.50	"	"	"	"	"	"	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-11D (S412315-01) Water Sampled: 12/13/04 13:20 Received: 12/13/04 16:10										
1,2,4-Trimethylbenzene	ND	0.18	0.50	ug/l	1	4120326	12/23/04	12/24/04	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.28	0.50	"	"	"	"	"	"	
Vinyl chloride	ND	0.16	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.48	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*89 %*	*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4		*87 %*	*70-130*			"	"	"	"	
Surrogate: Toluene-d8		*113 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB		*100 %*	*70-130*			"	"	"	"	
C-11S (S412315-02) Water Sampled: 12/13/04 13:52 Received: 12/13/04 16:10										
2-Butanone	ND	0.14	2.0	ug/l	1	4120326	12/23/04	12/24/04	EPA 8260B	
2-Chloroethylvinyl ether	ND	0.22	0.50	"	"	"	"	"	"	
2-Hexanone	ND	0.26	2.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	0.17	2.0	"	"	"	"	"	"	
Acetone	ND	0.52	2.0	"	"	"	"	"	"	
Acetonitrile	ND	2.4	5.0	"	"	"	"	"	"	
Acrolein	ND	0.70	5.0	"	"	"	"	"	"	
Acrylonitrile	ND	0.26	2.0	"	"	"	"	"	"	
Allyl chloride	ND	0.14	0.50	"	"	"	"	"	"	
Carbon disulfide	ND	0.29	0.50	"	"	"	"	"	"	
Chloroprene	ND	0.10	0.50	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	0.11	0.50	"	"	"	"	"	"	
Freon 113	ND	0.25	0.50	"	"	"	"	"	"	
Iodomethane	ND	0.036	0.50	"	"	"	"	"	"	
Isobutanol	ND	0.61	5.0	"	"	"	"	"	"	
m,p-Xylene	ND	0.38	0.50	"	"	"	"	"	"	
Methacrylonitrile	ND	0.73	1.0	"	"	"	"	"	"	
Methyl methacrylate	ND	0.20	0.50	"	"	"	"	"	"	
o-Xylene	ND	0.15	0.50	"	"	"	"	"	"	
Propionitrile	ND	2.7	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	0.10	0.50	"	"	"	"	"	"	
trans-1,4-Dichloro-2-butene	ND	0.42	0.50	"	"	"	"	"	"	
Vinyl acetate	ND	0.94	2.0	"	"	"	"	"	"	
Benzene	ND	0.28	0.50	"	"	"	"	"	"	
Bromobenzene	ND	0.39	0.50	"	"	"	"	"	"	
Bromochloromethane	ND	0.42	0.50	"	"	"	"	"	"	
Bromodichloromethane	ND	0.25	0.50	"	"	"	"	"	"	
Bromoform	ND	0.18	0.50	"	"	"	"	"	"	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-11S (S412315-02) Water Sampled: 12/13/04 13:52 Received: 12/13/04 16:10										
1,1,2,2-Tetrachloroethane	ND	0.59	1.0	ug/l	1	4120326	12/23/04	12/24/04	EPA 8260B	
Tetrachloroethene	ND	0.44	0.50	"	"	"	"	"	"	
Toluene	ND	0.32	0.50	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	0.46	0.50	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	0.41	0.50	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	0.19	0.50	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	0.43	0.50	"	"	"	"	"	"	
Trichloroethene	ND	0.36	0.50	"	"	"	"	"	"	
Trichlorofluoromethane	ND	0.42	0.50	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	0.55	1.0	"	"	"	"	"	"	
1,2,4-Trimethylbenzene	ND	0.18	0.50	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	0.28	0.50	"	"	"	"	"	"	
Vinyl chloride	**0.76**	0.16	0.50	"	"	"	"	"	"	
Xylenes (total)	ND	0.48	0.50	"	"	"	"	"	"	
Surrogate: Dibromofluoromethane		*88 %*	*70-130*			"	"	"	"	
Surrogate: 1,2-DCA-d4		*87 %*	*70-130*			"	"	"	"	
Surrogate: Toluene-d8		*105 %*	*70-130*			"	"	"	"	
Surrogate: 4-BFB		*97 %*	*70-130*			"	"	"	"	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Anions by EPA Method 300.0
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C-11D (S412315-01) Water Sampled: 12/13/04 13:20 Received: 12/13/04 16:10										
Chloride	**26**	0.31	2.0	mg/l	10	4120305	12/14/04	12/14/04	EPA 300.0	
Nitrate as N	ND	0.045	0.23	"	"	"	"	"	"	
Sulfate as SO4	**11**	0.31	2.0	"	"	"	"	"	"	
C-11S (S412315-02) Water Sampled: 12/13/04 13:52 Received: 12/13/04 16:10										
Chloride	**39**	0.31	2.0	mg/l	10	4120305	12/14/04	12/14/04	EPA 300.0	
Nitrate as N	ND	0.045	0.23	"	"	"	"	"	"	
Sulfate as SO4	ND	0.31	2.0	"	"	"	"	"	"	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Total Metals by EPA 200 Series Methods - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120266 - EPA 3010A / EPA 200.7											
Blank (4120266-BLK1)					Prepared: 12/21/04 Analyzed: 12/28/04						
Iron	0.00347	0.0019	0.010	mg/l							J
Laboratory Control Sample (4120266-BS1)					Prepared: 12/21/04 Analyzed: 12/28/04						
Iron	0.927	0.0019	0.010	mg/l	1.00		93	80-120			
Matrix Spike (4120266-MS1)		**Source: S412289-01**			Prepared: 12/21/04 Analyzed: 12/28/04						
Iron	0.909	0.0076	0.040	mg/l	1.00	ND	91	80-120			
Matrix Spike Dup (4120266-MSD1)		**Source: S412289-01**			Prepared: 12/21/04 Analyzed: 12/28/04						
Iron	0.897	0.0076	0.040	mg/l	1.00	ND	90	80-120	1	20	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Blank (4120326-BLK1)					Prepared: 12/23/04 Analyzed: 12/24/04						
2-Butanone	ND	0.14	2.0	ug/l							
2-Chloroethylvinyl ether	ND	0.22	0.50	"							
2-Hexanone	ND	0.26	2.0	"							
4-Methyl-2-pentanone	ND	0.17	2.0	"							
Acetone	ND	0.52	2.0	"							
Acetonitrile	ND	2.4	5.0	"							
Acrolein	ND	0.70	5.0	"							
Acrylonitrile	ND	0.26	2.0	"							
Allyl chloride	ND	0.14	0.50	"							
Carbon disulfide	ND	0.29	0.50	"							
Chloroprene	ND	0.10	0.50	"							
cis-1,3-Dichloropropene	ND	0.11	0.50	"							
Freon 113	ND	0.25	0.50	"							
Iodomethane	ND	0.036	0.50	"							
Isobutanol	ND	0.61	5.0	"							
m,p-Xylene	ND	0.38	0.50	"							
Methacrylonitrile	ND	0.73	1.0	"							
Methyl methacrylate	ND	0.20	0.50	"							
o-Xylene	ND	0.15	0.50	"							
Propionitrile	ND	2.7	5.0	"							
trans-1,3-Dichloropropene	ND	0.10	0.50	"							
trans-1,4-Dichloro-2-butene	ND	0.42	0.50	"							
Vinyl acetate	ND	0.94	2.0	"							
Benzene	ND	0.28	0.50	"							
Bromobenzene	ND	0.39	0.50	"							
Bromochloromethane	ND	0.42	0.50	"							
Bromodichloromethane	ND	0.25	0.50	"							
Bromoform	ND	0.18	0.50	"							
Bromomethane	ND	0.61	1.0	"							
n-Butylbenzene	ND	0.38	0.50	"							
sec-Butylbenzene	ND	0.36	0.50	"							
tert-Butylbenzene	ND	0.35	0.50	"							
Carbon tetrachloride	ND	0.37	0.50	"							
Chlorobenzene	ND	0.32	0.50	"							
Chloroethane	ND	0.31	1.0	"							
Chloroform	ND	0.37	0.50	"							

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Blank (4120326-BLK1)					Prepared: 12/23/04 Analyzed: 12/24/04						
Chloromethane	ND	0.18	1.0	ug/l							
2-Chlorotoluene	ND	0.33	0.50	"							
4-Chlorotoluene	ND	0.42	0.50	"							
Dibromochloromethane	ND	0.47	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.43	0.50	"							
Dibromomethane	ND	0.38	0.50	"							
1,2-Dibromo-3-chloropropane	ND	0.64	1.0	"							
1,2-Dichlorobenzene	ND	0.31	0.50	"							
1,3-Dichlorobenzene	ND	0.34	0.50	"							
1,4-Dichlorobenzene	ND	0.46	0.50	"							
Dichlorodifluoromethane	ND	0.31	0.50	"							
1,1-Dichloroethane	ND	0.22	0.50	"							
1,2-Dichloroethane	ND	0.42	0.50	"							
1,1-Dichloroethene	ND	0.24	0.50	"							
cis-1,2-Dichloroethene	ND	0.31	0.50	"							
trans-1,2-Dichloroethene	ND	0.26	0.50	"							
1,2-Dichloropropane	ND	0.32	0.50	"							
1,3-Dichloropropane	ND	0.40	0.50	"							
2,2-Dichloropropane	ND	0.38	0.50	"							
1,1-Dichloropropene	ND	0.38	0.50	"							
Ethylbenzene	ND	0.24	0.50	"							
Hexachlorobutadiene	ND	0.50	1.0	"							
Isopropylbenzene	ND	0.28	0.50	"							
p-Isopropyltoluene	ND	0.40	0.50	"							
Methylene chloride	ND	0.23	1.0	"							
Methyl tert-butyl ether	ND	0.36	0.50	"							
Naphthalene	ND	0.93	1.0	"							
n-Propylbenzene	ND	0.37	0.50	"							
Styrene	ND	0.33	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.34	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.59	1.0	"							
Tetrachloroethene	ND	0.44	0.50	"							
Toluene	ND	0.32	0.50	"							
1,2,3-Trichlorobenzene	ND	0.46	0.50	"							
1,2,4-Trichlorobenzene	ND	0.41	0.50	"							
1,1,1-Trichloroethane	ND	0.19	0.50	"							

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Blank (4120326-BLK1)					Prepared: 12/23/04 Analyzed: 12/24/04						
1,1,2-Trichloroethane	ND	0.43	0.50	ug/l							
Trichloroethene	ND	0.36	0.50	"							
Trichlorofluoromethane	ND	0.42	0.50	"							
1,2,3-Trichloropropane	ND	0.55	1.0	"							
1,2,4-Trimethylbenzene	ND	0.18	0.50	"							
1,3,5-Trimethylbenzene	ND	0.28	0.50	"							
Vinyl chloride	ND	0.16	0.50	"							
Xylenes (total)	ND	0.48	0.50	"							
Surrogate: Dibromofluoromethane	*8.89*			"	*10.0*		*89*	*70-130*			
Surrogate: 1,2-DCA-d4	*9.16*			"	*10.0*		*92*	*70-130*			
Surrogate: Toluene-d8	*10.5*			"	*10.0*		*105*	*70-130*			
Surrogate: 4-BFB	*9.75*			"	*10.0*		*98*	*70-130*			
Blank (4120326-BLK2)					Prepared & Analyzed: 12/26/04						
2-Butanone	ND	0.14	2.0	ug/l							
2-Chloroethylvinyl ether	ND	0.22	0.50	"							
2-Hexanone	ND	0.26	2.0	"							
4-Methyl-2-pentanone	ND	0.17	2.0	"							
Acetone	ND	0.52	2.0	"							
Acetonitrile	ND	2.4	5.0	"							
Acrolein	ND	0.70	5.0	"							
Acrylonitrile	ND	0.26	2.0	"							
Allyl chloride	ND	0.14	0.50	"							
Carbon disulfide	ND	0.29	0.50	"							
Chloroprene	ND	0.10	0.50	"							
cis-1,3-Dichloropropene	ND	0.11	0.50	"							
Freon 113	ND	0.25	0.50	"							
Iodomethane	ND	0.036	0.50	"							
Isobutanol	ND	0.61	5.0	"							
m,p-Xylene	ND	0.38	0.50	"							
Methacrylonitrile	ND	0.73	1.0	"							
Methyl methacrylate	ND	0.20	0.50	"							
o-Xylene	ND	0.15	0.50	"							
Propionitrile	ND	2.7	5.0	"							
trans-1,3-Dichloropropene	ND	0.10	0.50	"							
trans-1,4-Dichloro-2-butene	ND	0.42	0.50	"							
Vinyl acetate	ND	0.94	2.0	"							

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Blank (4120326-BLK2)					Prepared & Analyzed: 12/26/04						
Benzene	ND	0.28	0.50	ug/l							
Bromobenzene	ND	0.39	0.50	"							
Bromochloromethane	ND	0.42	0.50	"							
Bromodichloromethane	ND	0.25	0.50	"							
Bromoform	ND	0.18	0.50	"							
Bromomethane	ND	0.61	1.0	"							
n-Butylbenzene	ND	0.38	0.50	"							
sec-Butylbenzene	ND	0.36	0.50	"							
tert-Butylbenzene	ND	0.35	0.50	"							
Carbon tetrachloride	ND	0.37	0.50	"							
Chlorobenzene	ND	0.32	0.50	"							
Chloroethane	ND	0.31	1.0	"							
Chloroform	ND	0.37	0.50	"							
Chloromethane	ND	0.18	1.0	"							
2-Chlorotoluene	ND	0.33	0.50	"							
4-Chlorotoluene	ND	0.42	0.50	"							
Dibromochloromethane	ND	0.47	0.50	"							
1,2-Dibromoethane (EDB)	ND	0.43	0.50	"							
Dibromomethane	ND	0.38	0.50	"							
1,2-Dibromo-3-chloropropane	ND	0.64	1.0	"							
1,2-Dichlorobenzene	ND	0.31	0.50	"							
1,3-Dichlorobenzene	ND	0.34	0.50	"							
1,4-Dichlorobenzene	ND	0.46	0.50	"							
Dichlorodifluoromethane	ND	0.31	0.50	"							
1,1-Dichloroethane	ND	0.22	0.50	"							
1,2-Dichloroethane	ND	0.42	0.50	"							
1,1-Dichloroethene	ND	0.24	0.50	"							
cis-1,2-Dichloroethene	ND	0.31	0.50	"							
trans-1,2-Dichloroethene	ND	0.26	0.50	"							
1,2-Dichloropropane	ND	0.32	0.50	"							
1,3-Dichloropropane	ND	0.40	0.50	"							
2,2-Dichloropropane	ND	0.38	0.50	"							
1,1-Dichloropropene	ND	0.38	0.50	"							
Ethylbenzene	ND	0.24	0.50	"							
Hexachlorobutadiene	ND	0.50	1.0	"							
Isopropylbenzene	ND	0.28	0.50	"							

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Blank (4120326-BLK2)					Prepared & Analyzed: 12/26/04						
p-Isopropyltoluene	ND	0.40	0.50	ug/l							
Methylene chloride	ND	0.23	1.0	"							
Methyl tert-butyl ether	ND	0.36	0.50	"							
Naphthalene	ND	0.93	1.0	"							
n-Propylbenzene	ND	0.37	0.50	"							
Styrene	ND	0.33	0.50	"							
1,1,1,2-Tetrachloroethane	ND	0.34	0.50	"							
1,1,2,2-Tetrachloroethane	ND	0.59	1.0	"							
Tetrachloroethene	ND	0.44	0.50	"							
Toluene	ND	0.32	0.50	"							
1,2,3-Trichlorobenzene	ND	0.46	0.50	"							
1,2,4-Trichlorobenzene	ND	0.41	0.50	"							
1,1,1-Trichloroethane	ND	0.19	0.50	"							
1,1,2-Trichloroethane	ND	0.43	0.50	"							
Trichloroethene	ND	0.36	0.50	"							
Trichlorofluoromethane	ND	0.42	0.50	"							
1,2,3-Trichloropropane	ND	0.55	1.0	"							
1,2,4-Trimethylbenzene	ND	0.18	0.50	"							
1,3,5-Trimethylbenzene	ND	0.28	0.50	"							
Vinyl chloride	ND	0.16	0.50	"							
Xylenes (total)	ND	0.48	0.50	"							
Surrogate: Dibromofluoromethane	*8.99*			"	*10.0*		*90*	*70-130*			
Surrogate: 1,2-DCA-d4	*9.20*			"	*10.0*		*92*	*70-130*			
Surrogate: Toluene-d8	*10.5*			"	*10.0*		*105*	*70-130*			
Surrogate: 4-BFB	*10.2*			"	*10.0*		*102*	*70-130*			
Laboratory Control Sample (4120326-BS1)					Prepared: 12/23/04 Analyzed: 12/24/04						
Benzene	17.9	0.28	0.50	ug/l	20.0		90	70-130			
Chlorobenzene	20.0	0.32	0.50	"	20.0		100	70-130			
1,1-Dichloroethene	19.7	0.24	0.50	"	20.0		98	70-130			
Toluene	20.4	0.32	0.50	"	20.0		102	70-130			
Trichloroethene	21.6	0.36	0.50	"	20.0		108	70-130			
Surrogate: Dibromofluoromethane	*9.64*			"	*10.0*		*96*	*70-130*			
Surrogate: 1,2-DCA-d4	*9.62*			"	*10.0*		*96*	*70-130*			
Surrogate: Toluene-d8	*10.6*			"	*10.0*		*106*	*70-130*			
Surrogate: 4-BFB	*9.57*			"	*10.0*		*96*	*70-130*			

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Laboratory Control Sample (4120326-BS2)					Prepared & Analyzed: 12/26/04						
Benzene	14.9	0.28	0.50	ug/l	20.0		74	70-130			
Chlorobenzene	19.7	0.32	0.50	"	20.0		98	70-130			
1,1-Dichloroethene	21.1	0.24	0.50	"	20.0		106	70-130			
Toluene	18.8	0.32	0.50	"	20.0		94	70-130			
Trichloroethene	18.2	0.36	0.50	"	20.0		91	70-130			
Surrogate: Dibromofluoromethane	*9.59*			"	*10.0*		*96*	*70-130*			
Surrogate: 1,2-DCA-d4	*11.4*			"	*10.0*		*114*	*70-130*			
Surrogate: Toluene-d8	*9.28*			"	*10.0*		*93*	*70-130*			
Surrogate: 4-BFB	*9.42*			"	*10.0*		*94*	*70-130*			
Laboratory Control Sample Dup (4120326-BSD1)					Prepared & Analyzed: 12/23/04						
Benzene	19.0	0.28	0.50	ug/l	20.0		95	70-130	6	25	
Chlorobenzene	20.8	0.32	0.50	"	20.0		104	70-130	4	25	
1,1-Dichloroethene	20.4	0.24	0.50	"	20.0		102	70-130	3	25	
Toluene	19.9	0.32	0.50	"	20.0		100	70-130	2	25	
Trichloroethene	21.1	0.36	0.50	"	20.0		106	70-130	2	25	
Surrogate: Dibromofluoromethane	*9.42*			"	*10.0*		*94*	*70-130*			
Surrogate: 1,2-DCA-d4	*9.11*			"	*10.0*		*91*	*70-130*			
Surrogate: Toluene-d8	*9.58*			"	*10.0*		*96*	*70-130*			
Surrogate: 4-BFB	*9.42*			"	*10.0*		*94*	*70-130*			
Matrix Spike (4120326-MS1)	**Source: S412322-01**				Prepared: 12/23/04		Analyzed: 12/24/04				
Benzene	19.6	0.28	0.50	ug/l	20.0	ND	98	70-130			
Chlorobenzene	21.0	0.32	0.50	"	20.0	ND	105	70-130			
1,1-Dichloroethene	34.2	0.24	0.50	"	20.0	ND	171	70-130			QM01
Toluene	20.5	0.32	0.50	"	20.0	ND	102	70-130			
Trichloroethene	30.3	0.36	0.50	"	20.0	9.1	106	70-130			
Surrogate: Dibromofluoromethane	*9.40*			"	*10.0*		*94*	*70-130*			
Surrogate: 1,2-DCA-d4	*9.28*			"	*10.0*		*93*	*70-130*			
Surrogate: Toluene-d8	*9.24*			"	*10.0*		*92*	*70-130*			
Surrogate: 4-BFB	*9.84*			"	*10.0*		*98*	*70-130*			

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Volatile Organic Compounds by EPA Method 8260B - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120326 - EPA 5030B [P/T] / EPA 8260B											
Matrix Spike Dup (4120326-MSD1)	**Source: S412322-01**				Prepared: 12/23/04 Analyzed: 12/24/04						
Benzene	19.5	0.28	0.50	ug/l	20.0	ND	98	70-130	0.5	25	
Chlorobenzene	19.9	0.32	0.50	"	20.0	ND	100	70-130	5	25	
1,1-Dichloroethene	21.9	0.24	0.50	"	20.0	ND	110	70-130	44	25	QC20
Toluene	19.9	0.32	0.50	"	20.0	ND	100	70-130	3	25	
Trichloroethene	29.7	0.36	0.50	"	20.0	9.1	103	70-130	2	25	
Surrogate: Dibromofluoromethane	*9.62*			"	*10.0*		*96*	*70-130*			
Surrogate: 1,2-DCA-d4	*8.94*			"	*10.0*		*89*	*70-130*			
Surrogate: Toluene-d8	*9.80*			"	*10.0*		*98*	*70-130*			
Surrogate: 4-BFB	*9.46*			"	*10.0*		*95*	*70-130*			

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120184 - General Preparation / EPA 150.1											
Duplicate (4120184-DUP1)	**Source: S412315-01**				Prepared & Analyzed: 12/14/04						
pH	6.53	1.00	1.00	pH Units		6.51			0.3	20	
Batch 4120256 - General Preparation / EPA 160.1											
Blank (4120256-BLK1)					Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	ND	1.0	5.0	mg/l							
Laboratory Control Sample (4120256-BS1)					Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	491	1.0	5.0	mg/l	500		98	80-120			
Matrix Spike (4120256-MS1)	**Source: S412315-01**				Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	913	1.0	5.0	mg/l	500	440	95	80-120			
Matrix Spike Dup (4120256-MSD1)	**Source: S412315-01**				Prepared & Analyzed: 12/17/04						
Total Dissolved Solids	916	1.0	5.0	mg/l	500	440	95	80-120	0.3	20	
Batch 4120295 - General Preparation / EPA 180.1											
Blank (4120295-BLK1)					Prepared & Analyzed: 12/14/04						
Turbidity	0.190	0.020	0.20	NTU							J
Laboratory Control Sample (4120295-BS1)					Prepared & Analyzed: 12/14/04						
Turbidity	1.88	0.020	0.20	NTU	2.00		94	80-120			
Laboratory Control Sample Dup (4120295-BSD1)					Prepared & Analyzed: 12/14/04						
Turbidity	1.90	0.020	0.20	NTU	2.00		95	80-120	1	20	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120384 - General Preparation / EPA 410.4											
Blank (4120384-BLK1)					Prepared & Analyzed: 12/28/04						
Chemical Oxygen Demand	ND	4.4	20	mg/l							
Laboratory Control Sample (4120384-BS1)					Prepared & Analyzed: 12/28/04						
Chemical Oxygen Demand	266	4.4	20	mg/l	250		106	80-120			
Matrix Spike (4120384-MS1)	**Source: S412315-01**				Prepared & Analyzed: 12/28/04						
Chemical Oxygen Demand	23.6	4.4	20	mg/l	25.0	18	22	75-125			QM02
Matrix Spike Dup (4120384-MSD1)	**Source: S412315-01**				Prepared & Analyzed: 12/28/04						
Chemical Oxygen Demand	31.4	4.4	20	mg/l	25.0	18	54	75-125	28	20	QC20, QM02
Batch 4120201 - General Preparation / SM 2320											
Blank (4120201-BLK1)					Prepared: 12/15/04 Analyzed: 12/16/04						
Bicarbonate Alkalinity	ND	5.0	5.0	mg/l							
Total Alkalinity	ND	5.0	5.0	"							
Laboratory Control Sample (4120201-BS1)					Prepared: 12/15/04 Analyzed: 12/16/04						
Total Alkalinity	27.0	5.0	5.0	mg/l	26.5		102	80-120			
Matrix Spike (4120201-MS1)	**Source: S412247-02**				Prepared: 12/15/04 Analyzed: 12/16/04						
Total Alkalinity	66.0	5.0	5.0	mg/l	26.5	42	91	75-125			
Matrix Spike Dup (4120201-MSD1)	**Source: S412247-02**				Prepared: 12/15/04 Analyzed: 12/16/04						
Total Alkalinity	66.4	5.0	5.0	mg/l	26.5	42	92	75-125	0.6	20	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Conventional Chemistry Parameters by APHA/EPA Methods - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120335 - General Preparation / SM 2320											
Blank (4120335-BLK1)					Prepared & Analyzed: 12/23/04						
Bicarbonate Alkalinity	ND	5.0	10	mg/l							
Total Alkalinity	ND	5.0	10	"							
Laboratory Control Sample (4120335-BS1)					Prepared & Analyzed: 12/23/04						
Total Alkalinity	44.0	5.0	10	mg/l	53.0		83	80-120			
Laboratory Control Sample Dup (4120335-BSD1)					Prepared & Analyzed: 12/23/04						
Total Alkalinity	44.0	5.0	10	mg/l	53.0		83	80-120	0	25	
Batch 4120254 - General Preparation / SM 2510B											
Blank (4120254-BLK1)					Prepared: 12/17/04 Analyzed: 12/21/04						
Specific Conductivity @ 25 C	0.760	0.34	10	umhos/cm							J
Laboratory Control Sample (4120254-BS1)					Prepared: 12/17/04 Analyzed: 12/21/04						
Specific Conductivity @ 25 C	578	0.34	10	umhos/cm	504		115	80-120			
Matrix Spike (4120254-MS1)		**Source: S412241-02**			Prepared: 12/17/04 Analyzed: 12/21/04						
Specific Conductivity @ 25 C	1280	0.34	10	umhos/cm	504	750	105	75-125			
Matrix Spike Dup (4120254-MSD1)		**Source: S412241-02**			Prepared: 12/17/04 Analyzed: 12/21/04						
Specific Conductivity @ 25 C	1270	0.34	10	umhos/cm	504	750	103	75-125	0.8	20	

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Anions by EPA Method 300.0 - Quality Control
Sequoia Analytical - Sacramento

Analyte	Result	MDL	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 4120305 - General Preparation / EPA 300.0											
Blank (4120305-BLK1)					Prepared & Analyzed: 12/14/04						
Chloride	0.0379	0.031	0.20	mg/l							J
Nitrate as N	ND	0.0045	0.023	"							
Sulfate as SO4	ND	0.031	0.20	"							
Laboratory Control Sample (4120305-BS1)					Prepared & Analyzed: 12/14/04						
Chloride	4.96	0.031	0.20	mg/l	5.00		99	80-120			
Nitrate as N	1.12	0.0045	0.023	"	1.13		99	80-120			
Sulfate as SO4	10.8	0.031	0.20	"	10.0		108	80-120			
Laboratory Control Sample Dup (4120305-BSD1)					Prepared & Analyzed: 12/14/04						
Chloride	5.03	0.031	0.20	mg/l	5.00		101	80-120	1	20	
Nitrate as N	1.12	0.0045	0.023	"	1.13		99	80-120	0	20	
Sulfate as SO4	10.7	0.031	0.20	"	10.0		107	80-120	0.9	20	
Matrix Spike (4120305-MS1)	**Source: S412315-01**				Prepared & Analyzed: 12/14/04						
Chloride	77.9	0.31	2.0	mg/l	50.0	26	104	75-125			
Nitrate as N	11.3	0.045	0.23	"	11.3	ND	100	75-125			
Sulfate as SO4	113	0.31	2.0	"	100	11	102	75-125			

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City of Sacramento - Meadowview	Project:Sac City Landfill (Table I)	S412315
2812 Meadowview Rd.	Project Number:N/A	**Reported:**
Sacramento CA, 95832	Project Manager:John Olesen	12/30/04 15:51

Notes and Definitions

J	Estimated value.
QC20	The RPD was outside control limits.
QM01	The spike recovery was above control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM02	The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

SEQUOIA ANALYTICAL CHAIN OF CUSTODY

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☐ 1455 McDowell Blvd, Suite D. • **Petaluma, CA 94954** • (707) 792-1865 • FAX (707) 792-0342
☑ 819 Striker Ave., Suite 8 • **Sacramento, CA 95834** • (916) 921-9600 • FAX (916) 921-0100
☐ 1551 Industrial Road • **San Carlos, CA 94070** • (650) 232-9600 • FAX (650) 232-9612
☐ 404 N. Wiget Lane • **Walnut Creek, CA 94598** • (925) 988-9600 • FAX (925) 988-9673

Company Name: CITY OF SACRAMENTO		Project: SAC CITY LANDFILL	
Mailing Address: 2812 MEADOWVIEW RD		Billing Address (if different):	
City: SACRAMENTO	State: CA Zip Code: 95828		
Telephone: 264-7132	Fax #: 264-5868	P.O. #:	
Report To: JOHN OLESEN	E-mail Address:	QC Data: ☑ Level II (standard) ☐ Level III ☐ Level IV	
Sampler: JIM GABRIK	Date / Time Results Required: ASAP	Sequoia's Work Order #	315

Turnaround Time:
☑ 10-15 Working Days (Standard TAT)
☐ 7 Working Days
☐ 5 Working Days
☐ 72 Hours
☐ 48 Hours
☐ 24 Hours
☐ 2-8 Hours

MANDATORY:
☐ SDWA (Drinking Water)
☐ CWA (Waste Water)
☐ RCRA (Hazardous Waste)
☑ Other

ANALYSES REQUESTED (Please provide method)

Client Sample I.D.	Date / Time Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	SEE ATTACHED FOR METHODS	Comments/ Temp.(If required)
1. C-11D	12-13-04 1320	WATER	7	VARIOUS	412315-01		REPORT TRACE HITS ABOVE MDL's
2. C-11S	12-13-04 1352	"	7	"	-02		
3.							8260 EXPANDED LIST
4.							
5.							
6.							
7.							
8.							
9.							
10.							5-9

Relinquished By: JIM GABRIK	Received By:	Date / Time: 12-13-04 16:10
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:
Relinquished By:	Received By:	Date / Time:

Were Samples Received in Good Condition? ☑ Yes ☐ No Samples on Ice? ☑ Yes ☐ No Method of Shipment: COURIER Page 1 of 1

White: Sequoia Yellow: Sequoia Pink: Client

Environmental Management Department
Val F. Siebal, Director

County of Sacramento

Divisions
Environmental Compliance
Environmental Health

January 30, 2014

Steve Harriman
Integrated Waste General Manager
City of Sacramento
2812 Meadowview Road
Sacramento, CA 95832

Dear Mr. Harriman:

SUBJECT: **LEA DETERMINATION RE: UPDATED CLOSURE/POST CLOSURE MAINTENANCE PLAN FOR THE CITY OF SACRAMENTO (28TH STREET) SANITARY LANDFILL AND ISSUANCE OF CLOSURE PERMIT – SWIS# 34-AA-0018**

Background

27CCR, section 21865(a)(1) requires that operators of disposal sites without a solid waste permit submit an updated Closure/Post Closure Maintenance Plan (C/PCMP) per a specified schedule. In the case of this closed landfill which was certified closed in 1998, the updated plan was due by July 1, 2013, and every five years, thereafter. An updated C/PCMP was submitted by the operator to the Local Enforcement Agency (LEA) by the specified deadline and several further iterations were provided in response to LEA and CalRecycle review comments, including the final submittal on January 14, 2014. Copies of the updated plan drafts were also provided to the Regional Water Quality Control Board (RWQCB).

An amendment to the 1993 Final Closure/Post Closure Maintenance Plan specific to the portions of the West Site where a proposed photo-voltaic facility is to be built was approved in April 2013. The Post Closure Maintenance Plan portion of that amendment is included as an appendix to this updated C/PCMP. Due to various delays, construction of the solar project has not yet begun, as of the date of this letter.

The Environmental Management Department, as the LEA for the California Department of Resources, Recycling and Recovery (CalRecycle), reviewed the updated Closure/Post Closure Maintenance Plan (C/PCMP) and provides the following determination.

LEA Determination

LEA staff has determined that the proposed updated C/PCMP, as revised per LEA and CalRecycle comments, meets the requirements of Title 27. Please provide the LEA, CalRecycle, and the RWQCB with final copies of the Updated C/PCMP with all approved changes accepted.

Per 27CCR, section 21870(e)(1), the updated C/PCMP shall serve as both a

	Report of Facility Information and an application package for the closure permit for the site, per section 21665(a). The Closure Permit issued date is January 30, 2014. Please find a copy of the Closure Permit for the site attached.
Contact	If you have any questions regarding this letter, please contact me at (916) 876-7279.

Sincerely,

John Lewis
Environmental Specialist III
Solid Waste Program

Attachment: Closure Permit

LJ:JL:dw

c: Diane Nordstrom-Lamkin, CalRecycle
John Moody, RWQCB

W:\Data\Lewis\LEA\1 Sac City Landfill - 28th St\Closure Plan\Final Submittal 1-14-14 CPCMP\Approval of Updated CPCMP\LEA Approval Notification - Updated CPCMP.doc

STATE OF CALIFORNIA
CalRecycle 214A (Rev. 01/10)

DEPARTMENT OF RESOURCES RECYCLING AND RECOVERY (CalRecycle)

SOLID WASTE FACILITY PERMIT

Facility Number: 34-AA-0018

1. Name and Street Address of Facility:	2. Name and Mailing Address of Operator:	3. Name and Mailing Address of Owner:
City of Sacramento 28th Street Landfill 20 28th Street Sacramento, CA 95816	City of Sacramento Dept. of General Services 2812 Meadowview Road Sacramento, CA 95832 Phone: (916) 808-4949	City of Sacramento Dept. of General Services 2812 Meadowview Road Sacramento, CA 95832 Phone: (916) 808-4949

4. Specifications: **a.** Operation: Closed Solid Waste Disposal Site
b. Permitted Area (in acres) Total: 172 Disposal: 113 WMU A and B

The attached permit findings and conditions are integral parts of this permit and supersede the conditions of any previously issued solid waste facility permit.

5. Approval: Elise Rothschild, Chief

Elise Rothschild

Approving Officer Signature

6. Enforcement Agency Name and Address:

Sacramento County Environmental Management Dept.
10590 Armstrong Avenue, Suite A
Mather, CA 95655

7. Permit Issued Date: 1/30/2014

8. Permit Review Due Date: 1/30/2019

9. Legal Description of Facility: The legal description of this facility is contained in the final closure plan and includes Assessor's Parcel Number(s) 001-0170-016, 001-0170-018, 001-0170-019, 001-0170-021, 001-0170-026, 003-0010-001, 003-0042-002, 003-0050—001, 003-0050-012, 003-0050-013, and 003-0050-014.

10. Findings:

a. This permit is consistent with the standards adopted by the Department of Resources Recycling and Recovery (CalRecycle).
b. The closure and postclosure maintenance of the disposal site is consistent with the State Minimum Standards for Solid Waste Handling and Disposal as determined by the Enforcement Agency.
c. Two mitigated negative declarations were filed with the State Clearinghouse for land uses in the pre-reg portion of the landfill: (SCH# 2008072014 and #2012052049). They were certified by the City of Sacramento on 7/2/2008 and 2/22/2013. Notices of Determination were filed with the State Clearinghouse on 9/12/2008 and 5/28/2013.

11. Prohibitions: Disposal of solid waste at this site is prohibited.

12. The following documents describe and/or restrict the closure and postclosure maintenance of this site:

Waste Discharge Requirements Order No.	R5-2004-0039	AQMD Permits to Operate	#14749 and #9314
Closure/Post Closure Maintenance Plans and revisions	1/2014	Post Closure Land Use Plan	1/2013 and 1/2014

13. Self Monitoring: The owner/operator shall submit the results of all self-monitoring programs to the Enforcement Agency in accordance with the most recently approved postclosure maintenance plan.

14. Enforcement Agency (EA) Conditions:

a. The owner/operator shall comply with all applicable standards as specified in Title 27, California Code of Regulations (27 CCR) including all appropriate financial assurance requirements.
b. Additional information concerning the disposal site shall be furnished upon request within the time frame specified by the EA.
c. The owner/operator shall comply with the most recently approved Closure Plan and the most recently approved Postclosure Maintenance Plan.
d. All proposed changes, including postclosure land uses, that would cause the design or maintenance of the disposal site to be modified shall be documented in revised closure and/or postclosure maintenance plans and may be implemented only upon approval of the revised plan(s).
e. The EA shall be notified of a change in ownership during closure or postclosure maintenance in accordance with 27 CCR 21200.