NV5

Proposal No. PC18.112
November 26, 2018

Ms. Diane Holliman, CBO
Hamilton Unified School District
P.O. Box 488
Hamilton City, California 95951
Phone: (530) 826-3261, ext. 6011
Email: DHolliman@husdschools.org

C/O: Mr. Mike Cannon
EFPM/LLC
Phone: (916) 825-0000
Email: mscannon_efpm@msn.com

REFERENCE: **Hamilton Union High School Expansion**
Glenn County Assessor Parcel Number: 032-230-015

SUBJECT: **Proposal for Preliminary Endangerment Assessment**

Dear Ms. Holliman,

NV5 prepared this proposal to perform a Preliminary Endangerment Assessment (PEA) at the above-referenced property in Glenn County, California. NV5 will prepare a PEA Work Plan, perform sampling and laboratory analyses, and prepare a PEA report. The purpose of the PEA is to address requirements of the California Department of Toxic Substances Control (DTSC) for characterization of the property with regard to potentially hazardous materials. A brief site background and scope of services for the PEA is described in the following sections.

1.0 BACKGROUND

NV5 understands that the site is owned by Westermann Farms General Partnership, is comprised of approximately 45 acres and is currently being used for agricultural purposes. NV5 understands that Hamilton Unified School District (HUSD) is considering developing the property as a school campus. Environmental review is being conducted pursuant to the Education Code and Health & Safety Code of the California Code of Regulations.

NV5 performed a *Phase I Environmental Site Assessment* (ESA) dated September 13, 2018 to identify evidence of recognized environmental conditions (RECs) associated with the subject property. The Phase I ESA revealed evidence of RECs including the potential for polychlorinated biphenyls (PCBs) associated with an electrical transformer and the potential for residual agricultural chemicals in soil. NV5 recommended soil sampling for PCBs beneath the existing transformer and soil sampling for agricultural chemicals site-wide.

It should be noted that as of the date of this proposal, the Phase I ESA has not been approved by DTSC, and as such, there is potential that DTSC may require changes to the list of RECs identified, which may impact the scope of work presented below.

2.0 PROPOSED SCOPE OF WORK

TASK 1 – PROJECT MANAGEMENT

NV5 will assist HUSD with submitting the Phase I ESA to DTSC for review/approval. Following approval of the Phase I ESA, NV5 will coordinate and attend a scoping meeting with DTSC and perform other relevant project management tasks as directed by HUSD, including preparation of meeting materials and public notices, as needed. NV5 assumes that HUSD will pay advertising fees for public notices directly, thus no fees are included in the cost estimate.

TASK 2 – PREPARE PEA WORK PLAN

NV5 will prepare a PEA Work Plan pursuant to DTSC requirements. The Work Plan will describe the conceptual site model, field sampling procedures, laboratory analyses, decontamination procedures, data validation procedures, screening values for use in evaluating the results, and health and safety procedures.

The sampling procedures presented in the work plan will be based on the following DTSC guidance documents:

- Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers (DTSC, June 2006);
- Interim Guidance for Sampling Agricultural Fields for School Sites (DTSC, August 2006);
- Preliminary Endangerment Assessment Guidance Manual. (DTSC, October 2015); and
- DTSC Human and Ecological Risk Office Note 3. (DTSC, August 2017)

NV5 will prepare a draft PEA Work Plan that will be submitted to the DTSC for review and comment. Following receipt of DTSC comments, NV5 will prepare a draft final PEA Work Plan which will be submitted to DTSC for a second review. NV5 will subsequently incorporate DTSC's comments and prepare a final PEA Work Plan. For the purposes of cost estimation, it is assumed that DTSC comments on the draft work plan will be minor.

TASK 3 – PEA WORK PLAN IMPLEMENTATION

NV5 will perform soil sampling and laboratory analysis in accordance with the DTSC approved PEA Work Plan. It is assumed that the field work can be completed in three days. Soil samples will be collected to assess the presence of PCBs beneath the electrical transformer and organochlorine pesticides and arsenic in soils site-wide. The following table lists the areas to be sampled, minimum number of samples to be collected and laboratory analyses.

Location	Sample Type	Quantity	Analyte	EPA Method
Electrical Transformer	Discrete	3	PCBs	8082
Agricultural Field	Composite	14	OCPs	8081A
	Discrete	14	Arsenic	6010
Background	Discrete	9	Arsenic	6010

EPA = Environmental Protection Agency
OCP = organochlorine pesticides
PCB = polychlorinated biphenyls

The results of laboratory analysis may impact the scope of the assessment. If benchmark screening levels are exceeded, then additional samples may need to be collected and analyzed. If additional sampling or laboratory analysis is required, then a budget augmentation will be needed.

TASK 4 – PREPARE PEA REPORT

NV5 will prepare a draft PEA Report to document the field activities and laboratory results. Based on the findings, NV5 will conduct a screening-level human health risk assessment, if warranted. Based on our experience with similar projects, it is anticipated that revisions to the draft PEA Report may be required by DTSC as a result of DTSC's review or public comment on the draft PEA. The cost for revision of the PEA report may vary significantly from our estimate based on the results of public comment and DTSC's evolving policies. If additional time is required to address DTSC requirements and/or public comment, a budget augmentation will be needed.

3.0 SCHEDULE

NV5 is prepared to commence work on this project following receipt of a signed contract and notice to proceed. The PEA Work Plan will be completed within 45 days of the notice to proceed. Field work will be completed following DTSC approval of the PEA Work Plan, and the PEA report will be completed within 45 days of receipt of the analytical results. A formal schedule will be provided following the scoping meeting with the DTSC.

4.0 FEE ESTIMATE

NV5 proposes to perform the above scope of services, in accordance with our 2018 Fee Schedule and our existing Agreement for Environmental Consulting Services, on a time and materials basis for an estimated fee of $40,566.50. A cost estimate is attached for your review. The total estimated fee will not be exceeded without your prior approval.

The cost estimate should be considered preliminary and may require modification based on unforeseen site conditions or DTSC requests for additional information. NV5 will not perform additional work outside the scope of services presented above until a written authorization to proceed and an approved budget augmentation are received.

This proposal does not include costs associated with project oversight fees charged by the DTSC. Because the scope of work for implementing the work plan will not be fully known until the final PEA Work Plan is approved, the cost estimate is preliminary. Upon DTSC approval of the PEA Work Plan, NV5 will evaluate whether the preliminary cost estimate is valid or whether a budget augmentation is needed.

5.0 AUTHORIZATION TO PROCEED

Please sign below to indicate your acceptance of this proposed work scope and cost estimate. Your signature indicates that you extend the terms and conditions of our existing contract agreement dated August 1, 2018, and is written authorization to proceed with the work scope presented herein.

NV5 appreciates the opportunity to provide environmental services on this project. If you have questions or comments, please contact the undersigned at (530) 894-2487.

Sincerely,

NV5

Heidi Cummings

Heidi Cummings, PG
Senior Geologist

Attachments: NV5 2018 Fee Schedule
Fee Estimate

Client Authorization

I hereby authorize NV5 – Holdrege & Kull to implement the above scope of services for the fee estimate outlined in this proposal. This authorization extends the existing signed Terms and Conditions dated August 1, 2018, between the Hamilton Unified School District and NV5 – Holdrege & Kull to apply to the services and fees outlined in this request.

C J Rael
Signature

CHARLES RAEL
Printed Name

SUPERINTENDENT
Title

12/18/2018
Date

NV5

2018 CHICO FEE SCHEDULE

Personnel	Hourly Rate
Project Assistant	$78
AutoCAD Operator	$100
Technical Editor	$80
Assistant Engineer/Geologist	$117
Staff Scientist	$132
Staff Engineer/Geologist	$132
Project Engineer/Geologist	$150
Senior Engineer/Geologist	$160
Associate Engineer/Geologist	$170
Principal	$235
Expert Testimony and Deposition (four-hour minimum)	$320
Engineering Technician I	$87
Engineering Technician II	$92
Engineering Technician III	$97
Certified Welding Inspector (CWI/AWS)	$108
Non-Destructive Testing (NDT) Technician	$108
ASNT Level III	$159
Supervisory Technician	$116
Construction Services Manager I	$144
Construction Services Manager II	$158

Prevailing Wage Services	Hourly Rate
Field Soils and Materials Tester, Soils/Asphalt	$111
ACI Concrete Tester	$111
ICC Fireproofing	$109
Proofload/Torque Testing	$109
AWS/CWI Certified Welding Inspector	$116
ASNT Level II Non-Destructive Testing (NDT) Technician	$122
ICC Certified Structural Inspector	$114
DSA Masonry/Shotcrete and Lead Inspector	$122
Travel Time – Tester/Inspector	$87

Field Equipment	Unit Rate
All-Terrain Vehicle	$44/Day
Cone Penetrometer	$150/Day
Core Drill Machine	$180 Half Day/$240 Full Day
DAQ III/Seismic Refraction Survey	$350/Day
Excavator with Operator	$128/Hour
Pachometer	$42/Day
pH/Conductivity Meter	$52/Day
Photoionization Detector (PID)	$106/Day
Tension Ram	$32/Day
Turbidity Meter	$52/Day
Unmanned Aerial Vehicle System (Drone; see notes for details)	$200/Day
Water Quality Meter (pH, conductivity, temperature, DO)	$106/Day
1.5-Inch Pump and Controllers	$136/Day
4-Inch Pump with Trailer	$162/Day

Notes

- Mileage and hourly rates will be charged portal to portal. Mileage will be billed at $0.65 per mile.
- Outside services will be billed at our cost plus 20 percent.
- Overtime rates for Saturday, Sunday, holiday or over 8 hours/day: hourly rate plus $32/Hour.
- Prevailing wage overtime rates for Saturday or over 8 hours/day: hourly rate plus $32/Hour.
- Prevailing wage double time rates for Sunday, holiday or over 12 hours/day: hourly rate plus $64/Hour.
- Second shift rates: hourly rate plus $16/Hour.
- A minimum 2 hour fee will be charged for scheduled site visits not cancelled in advance of arrival.
- Per Diem will be billed at cost plus 20 percent unless other arrangements are made.
- Drone flights require a Remote Pilot in Command, which is billed at the Project Engineer/Geologist hourly rate.
- A hazard surcharge may apply for drone flights over water, at high elevation, or near high voltage lines.

NV5

2018 CHICO LABORATORY TESTING FEE SCHEDULE

This is a partial list of the most common laboratory tests. ASTM/CTM Standards are used as guidelin

Soil	Aggregate	Concrete	Asphalt	ASTM Test Methods	Unit Cost
		■		ASTM A615, Reinforcing Steel Tensile Test to #8	$87
		■		ASTM A615, Reinforcing Steel Bend Test to #8	$28
		■		ASTM C39, Concrete Compressive Strength, 4x8	$32
		■		ASTM C39, Concrete Compressive Strength, 6x12	$40
		■		ASTM C78, Flexural Strength of Concrete	$103
		■		ASTM C140, CMU Strength, Unit Weight, Absorption	$195
		■		ASTM C780, Compressive Strength Mortar	$32
		■		ASTM C1019, Compressive Strength Grout	$32
		■		ASTM C1314, Compressive Strength Masonry Prisms	$111
■	■	■		ASTM C136, D422A Full Sieve Particle Size Analysis	$132
■				ASTM D422B, Long Hydrometer Particle Size Analysis (specific gravity not included)	$132
■	■			ASTM D422C, Full Sieve w/ Long Hydrometer Particle Size Analysis (spec. gravity not incl.)	$175
■	■			ASTM D698, D1557, Compaction Curves (4-inch mold)	$205
■	■			ASTM D698, D1557, Compaction Curves (6-inch mold)	$215
■	■			ASTM D854, Specific Gravity	$90
■	■	■		ASTM C117, D1140, No. 200 Mesh Wash Particle Size Analysis	$87
■				ASTM D2166, Unconfined Compression Shear Strength	$111
■	■			ASTM D2216, Oven Moisture Content	$29
■	■			ASTM D2419, Sand Equivalent	$108
■	■			ASTM D2434, Constant Head Permeability	$174
■	■			ASTM D2435, One-Dimensional Consolidation (per point)	$26
■	■			ASTM D2844, Resistance Value	$271
■	■			ASTM D2850, Unconsolidated, Undrained, Triaxial Shear Strength (per point)	$147
■	■			ASTM D2937, Density-Moisture	$35
■				ASTM D3080, Direct Shear Strength (3 points minimum)	$303
■				ASTM D4318, Atterberg Indices (Dry Method)	$152
■				ASTM D4546, One-Dimensional Settlement or Swell (per point)	$87
■				ASTM D4767, Consolidated, Undrained, Triaxial Shear Strength (per point)	$175
■				ASTM D4829, Expansion Index (UBC Expansion Index)	$152
■				ASTM D4832, Strength of CLSM	$44
■				ASTM D5084, Falling Head Permeability	$249
				California Test Methods	
■	■	■	■	CTM 202, Analysis of Fine Coarse Aggregate	$132
	■		■	CTM 205, Percent of Crushed Particles	$87
	■	■	■	CTM 206, Specific Gravity/Absorption Coarse Aggregate	$108
	■	■	■	CTM 207, Specific Gravity/Absorption Fine Aggregate	$108
	■		■	CTM 208, Apparent Specific Gravity of Fine Aggregate	$98
■	■			CTM 216, Maximum Wet Density Determination	$217
■	■	■	■	CTM 217, Sand Equivalent	$108
■	■	■	■	CTM 226, Moisture Content by Oven	$29
■	■	■		CTM 227, Evaluating Cleanness of Coarse Aggregate	$103
	■	■		CTM 229, Durability Index	$152
	■	■	■	CTM 234, Uncompacted Void Content of Fine Aggregate	$108
	■		■	CTM 235, Percent of Flat and Elongated Particles	$87
			■	CTM 308, Bulk Density Hot Mix Asphalt (HMA)	$38
			■	CTM 309, Max Specific Gravity of HMA	$162
			■	CTM 370, Moisture Content with Microwave	$25
			■	CTM 382, Asphalt Content by Ignition Method	$159
			■	CTM 382, Asphalt Content by Ignition Method Correction Factor Development	$490
			■	Caltrans LP 2, 3, 4 Aggregate Asphalt and Dust Proportion	$162

NV5-Holdrege & Kull

ATTACHMENT 2

PROJECT COST ESTIMATE

JOB NAME:	Hamilton Union High School Expansion	**PROPOSAL NO.:** PC18.112	**PREPARED BY:** CHB
DESCRIPTION:	Preliminary Endangerment Assessment		**DATE PREPARED:** 08/22/18
LOCATION:	Hamilton City, Glenn County, California	**COST TYPE:** T&M	**FEE SCHEDULE:** 2018

DESCRIPTIONS				**Task 1** Project Management		**Task 2** PEA Work Plan		**Task 3** Field Work		**Task 4** PEA Report		**TOTALS**
Retainer Fee =	**$0.00**			**Subtask** Scoping Meeting Procurement, status reporting scheduling		**Subtask** draft draft final final		**Subtask**		**Subtask** draft draft final final		
Grand Total =	**$40,566.50**											
			Subtotals	$3,132.50		$11,616.00		$13,922.00		$11,896.00		$40,566.50
PERSONNEL	**CODE**	**RATE ($)**	**UNIT**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**COST ($)**
Associate Eng/Geo	AE	170.00	hr	3.0	510.00	4.0	680.00		0.00	8.0	1,360.00	2,550.00
Senior Eng/Geo	SREG	160.00	hr	12.0	1,920.00	60.0	9,600.00	30.0	4,800.00	60.0	9,600.00	25,920.00
Project Eng/Geo	PEG	150.00	hr		0.00		0.00		0.00		0.00	0.00
Staff Eng/Geo	SFEG	132.00	hr	3.0	396.00		0.00	32.0	4,224.00		0.00	4,620.00
Assistant Eng/Geo	AEG	117.00	hr		0.00		0.00		0.00		0.00	0.00
AutoCAD	ACAD	100.00	hr		0.00	8.0	800.00		0.00	4.0	400.00	1,200.00
Tch Editor	TE	80.00	hr	2.0	160.00	4.0	320.00		0.00	4.0	320.00	800.00
Proj Assistant	PA	78.00	hr	1.0	78.00		0.00		0.00		0.00	78.00
Not Applicable	NA	0.00	NA		0.00		0.00		0.00		0.00	0.00
PERSONNEL SUBTOTALS				21.0	$3,064.00	76.0	$11,400.00	62.0	$9,024.00	76.0	$11,680.00	$35,168.00
REIMBURSABLES	**MrkUP**	**RATE ($)**	**UNIT**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**COST ($)**
Mileage	1.00	0.65	mile	50.0	32.50		0.00	200.0	130.00		0.00	162.50
EPA Pre-Cleaned Scoops	1.00	80.00	box		0.00		0.00	3.0	240.00		0.00	240.00
Miscellaneous Field Supplies	1.00	50.00	day		0.00		0.00	2.0	100.00		0.00	100.00
Report Preparation & Postage	1.20	30.00	ea	1.0	36.00	6.0	216.00		0.00	6.0	216.00	468.00
Excavator Rental	1.20	640.00	day		0.00		0.00	3.0	2,304.00		0.00	2,304.00
REIMBURSABLE SUBTOTALS					$68.50		$216.00		$2,774.00		$216.00	$3,274.50
OUTSIDE SUBCONTRACTORS	**MrkUP**	**RATE ($)**	**UNIT**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**NO.**	**COST ($)**	**COST ($)**
Chemical Laboratory Subcontractor (See Attachment 2B)	1.20	1770.00	LS		0.00		0.00	1.0	2,124.00		0.00	2,124.00
	1.20	0.00	LS		0.00		0.00		0.00		0.00	0.00
OUTSIDE SUBCONTRACTOR SUBTOTALS					$0.00		$0.00		$2,124.00		$0.00	$2,124.00
GRAND TOTALS					$3,132.50		$11,616.00		$13,922.00		$11,896.00	$40,566.50

ATTACHMENT 2B

Chemical Laboratory Testing Program

PROJECT NAME:	Hamilton Union High School Expansion	Prpsl/Prjct No.:	PC18.112	**PREPARED BY:**	CHB
DESCRIPTION:	Preliminary Endangerment Assessment	LAB QUOTE FROM:	SunStar Laboratory	**DATE PREPARED:**	08/22/18
LOCATION:	Hamilton City, Glenn County, California	**COST TYPE:**	T&M	**FEE SCHEDULE:**	2018

TASKS AND CHEM LAB TESTS	CHEMICAL TESTING PROGRAM																								COST		
	Volatile and Semi-Volatile Organics								Metals				Inorganics				Extractions		Air		Others								
	EPA 8260B-1	EPA 8260B-2	EPA 8260B-3	EPA 8260B-4	EPA 8015-1	EPA 8015-2	EPA 8082	EPA 8081A	EPA 6010-1	EPA 6010-2	EPA 6010-3	EPA 6010-4	EPA 300.0-1	EPA 300.0-2	EPA 300.0-3	EPA 2540C	CAC	EPA 1311	EPA T015	EPA T015	Comp	NA	NA	NA	NA	NA			
	Vltil Orgnc Cmpnds	TPH-G, BTX and Oxygnts	BTEX	BTEX & Nplthln	TPH-G	TPH-D	PCBs	Chlrntd Pstcds	Title 22 Metals (CAM 17)	Priority Pollutants (13 Metals)	TAL 23 Mtls	Indvdl Mtls	Chloride (Cl)	Nitrate	Sulfate	Ttl Dsslvd Slds (TDS)	STLC Extrctn	TCLP Extrctn	Vltl Orgnc Cmpnds (Air)	Vltl Orgnc Cmpnds (Air)	Comp	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Not Applicable	Laboratory Cost	Mark-UP	Extended Cost
	$105	$105	$65	$85	$40	$45	$50	$60	$140	$125	$195	$20	$30	$30	$30	$30	$65	$75	$150	$150	$10	$0	$0	$0	$0	$0	($)	1.00	($)
Task 1																											Totals		
Primary Samles							3	14				14									14						$1,410	1.00	$1,410.00
Duplicate Samples								2				2									2						$180	1.00	$180.00
Colocated Samples								2				2									2						$180	1.00	$180.00
																									Subtotal		$1,770	1.00	$1,770.00
Task 2																											Totals		
																											$0	1.00	$0.00
																											$0	1.00	$0.00
																									Subtotal		$0	1.00	$0
Task 3																											Totals		
																											$0	1.00	$0.00
																											$0	1.00	$0.00
																									Subtotal		$0	1.00	$0
Task 4																											Totals		
																											$0	1.00	$0.00
																											$0	1.00	$0.00
																											$0	1.00	$0.00
																									Subtotal		$0	1.00	$0.00
TOTAL TESTS	0	0	0	0	0	0	3	18	0	0	0	18	0	0	0	0	0	0	0	0	18	0	0	0	0	0	$1,770	1.00	$1,770.00
TOTAL COSTS (No Mark-Up)	$0	$0	$0	$0	$0	$0	$150	$1,080	$0	$0	$0	$360	$0	$0	$0	$0	$0	$0	$0	$0	$180	$0	$0	$0	$0	$0	$1,770.00	1.00	$1,770.00