

RESOLUTION NO. 2020- 361

A RESOLUTION AUTHORIZING THE ISSUANCE OF AN AMENDATORY SUPPLEMENTAL CHANGE ORDER NO. 1 TO CONTRACT NO. C20-0057, PURCHASE ORDER NO. 20-03102 ISSUED TO CHAPMAN INC., EATONTOWN, NJ, IN THE AMOUNT OF \$18,850.00.

WHEREAS, the City Council of the City of Vineland, on February 25, 2020, adopted Resolution No. 2020-99, entitled "A RESOLUTION AWARDING A CONTRACT TO CHAPMAN INC., EATONTOWN, NJ, FOR THE FURNISHING OF 2020 LANDFILL MW & METHANE TESTING, IN THE AMOUNT OF \$20,600.00; and

WHEREAS, N.J.A.C. 5:30-11.9 sets forth the procedures for processing change orders which exceed the 20 percent limitation; and

WHEREAS, the management personnel of Engineering has requested that an amendment be made to contract awarded to Chapman Inc., Eatontown, NJ, for furnishing of 2020 Landfill MW & Methane Testing for the City of Vineland as authorized by Resolution No. 2020-99, said amendment is made necessary due to the fact that NJDEP is requiring the repair of methane vents and monitoring wells as these are a part of the permit; and

WHEREAS, the City of Vineland desires to comply with said requirements of N.J.A.C. 5:30-11.9, and to that end herewith files with the governing body a report stating the facts involved and indicating that said change order may be allowed under these regulations; and

WHEREAS, the Chief Financial Officer has certified the availability of funds for the amendatory supplemental change order for which authorization is requested in the amount of \$18,850.00; now, therefore,

BE IT RESOLVED by the Council of the City of Vineland that said amendatory supplemental change order #1 to Contract No. C20-0057, Purchase Order No. 20-03102 issued to Chapman Inc., in the amount of \$18,850.00, be and the same is hereby ratified and approved.

Adopted:

President of Council

ATTEST:

City Clerk



September 1, 2020

TO THE MAYOR AND COUNCIL
OF THE CITY OF VINELAND

Amendatory Supplemental Change Order No. 1
Contract No. C20-0057
2020 Landfill MW & Methane Testing
Chapman Inc., Eatontown, NJ

We are requesting an amendatory supplemental change order to Contract No. C20-0057, Purchase Order No. 20-03102, issued to Chapman Inc., for the furnishing of 2020 Landfill MW & Methane Testing.

This contract was authorized by Resolution No. 2020-99, adopted by City Council on February 25, 2020.

The change order requested, in the amount of \$18,850.00, provides for the repair of methane vents and monitoring wells as these are a part of the permit.

This change order represents an increase of approximately 91.504854369% over the original contract amount of \$20,600.00.

The amendatory supplemental change order which exceeds the 20% limitation, for which authorization is herein requested, may be authorized in accordance with N.J.A.C. 5:30-11.9.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "Robert Dickenson", written over a large, stylized flourish that extends to the right.

Robert Dickenson
Business Administrator

RD/rl
Encl.

REQUEST FOR CHANGE ORDER

FOR:

2020 Landfill MW & Methane Testing

PROJECT NAME

TO: BUSINESS ADMINISTRATION

DEPARTMENT: Engineering FROM: Mike Russo

This is a request for change order # 1 to Contract # C20-0057 for:

Project Name 2020 Landfill MW & Methane Testing

Name/Address of

Contractor: Chapman Environmental Services, One Industrial Way West, Bldg A, Ste 10, Eatontown, NJ 07724


The change order is necessary because: (use additional pages if necessary to explain your reason and you must attach *documentation to support the necessity of this change order.

*(Documentation from contractor, engineer, etc.)

NJDEP is requiring the repair of methane vents and monitoring wells as these are a part of the permit.

Original Contract Amount:	\$ 22,000.00 ^{\$ 20,600.00}
Amount of this change order:	\$ 18,850.00
Previous Change Orders:	\$ 0
Total Revised Amount:	\$ 40,850.00 ^{\$ 39,450.00}

APPROVED BY: David J. Maillet
Print/type


Signature

NOTE:

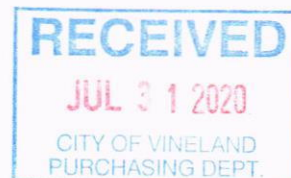
CHANGE ORDERS CANNOT EXCEED 20% OF THE ORIGINAL CONTRACT AMOUNT

Please provide the account number that the change order will be charged to:

Account # C 04 00 000 8916 70410

CC: Purchasing Division







July 29, 2020

PROPOSED CHANGE ORDER to contract #C20-0057 & P.O. 20-03102

dmaillet@vinelandcity.org

David J. Maillet, P.E.,
Acting City Engineer , Division of Engineering and Planning
City of Vineland
640 E. Wood Street
PO Box 1508
Vineland, NJ 08362-1508

Subject: **Contract #C20-0057**
 P.O. 20-03102
 CHANGE ORDER
 MW Replacement, Methane Sampling & Vent Repairs
 City of Vineland SLF #1
 Vineland, NJ

Dear Mr. Maillet:

Chapman, Inc. is pleased to present this **change order to Contract #C20-0057** for licensed well drilling, methane sampling and methane vent repair services to assist the City of Vineland with required NJDEP Permit Compliance associated with the City's closed Landfill located at S. Mill Road. Please do not hesitate to contact me at 201-341-6285 if you have any questions regarding the scope of work as presented. We look forward to working with you.

Sincerely,
Chapman, Inc.

A handwritten signature in black ink that reads "Matthew M. Mee".

Matthew Mee
Principal Scientist

CUSTOMER: City of Vineland
SERVICE: Change Order: Methane Sampling, Groundwater Monitoring Well Replacement & Methane Vent Repairs
CONTRACT DURATION: To be completed during the 3rd Quarter 2020 Monitoring Period.

SCOPE OF SERVICES

Project Background

Two of the groundwater monitoring wells (MW-5 & MW-7) located at Vineland's SLF #1 are in need of repair. As part of the Landfill's closure plan, multiple groundwater monitoring wells must be sampled quarterly to maintain compliance. MW-5 and MW-7 are no longer functional and have been dry for approximately 2 years. The scope of services below detail the needed repairs to be completed by a licensed well driller.

In addition, one of the Methane Monitoring vents located on the north slope of the landfill has completed failed. This vent must be replaced so that NJDEP Air Permit (Facility ID# 75513) compliance sampling can occur. The scope of services below includes the needed repair work to this failed methane vent.

Wells records needed for the repair of the two monitoring wells were requested and obtained from NJDEP Bureau of Water Allocation and Well Permitting. These records allowed for accurate identification, location, and construction of target wells. A site-specific health and safety plan (HASP) has been completed for the below scope of work. A utility mark out 1-call will be made at least 3 days prior to site work.

Task 1: Methane Sampling

Chapman will collect flow rate measurements and % methane readings from 44 available large interior passive methane vents located at the City of Vineland Landfill located on S. Mill Road. One interior vent (of the 45 total) is reportedly damaged and will not be sampled. A Landtec GEM5000 landfill gas analyzer will be used to collect both flow rate and Methane (H₂S) gas concentrations. Chapman will install sampling ports on each of the 44 vents in order to facilitate the gas readings, all sampling ports will be sealed with saddle clamps to allow future sampling as needed.

An inline small-bore pilot tube will be utilized to collect both flow rate and concentration from the vertical stack. All manufacturer's specifications and instructions will be adhered to for sample collection. A letter report will be provided to the Client detailing the equipment and methods used as well as the sampling results in both % Methane and PPM concentrations as well as flow in m³/hr and CFM.

Task 2: Monitoring Well & Methane Repair/Replacement

Regarding MW-5, based on NJDEP records this well was installed in 1985 and should be 33 feet deep; however, it currently measures 17 feet with groundwater at 10 feet below grade. This well is damaged. The protective outer casing, a stickup, is broken off and on the ground next to the well. Based on how deep the well is (see above), approximately 16 feet of sediment and/or debris have fallen into the well. The inner 4" PVC casing appears to be broken off at a slip coupling at or near grade, which means below it the well may not be structurally damaged. As a cost-effective initial approach, we propose to attempt to repair, rather than replace, this Well.

Specifically, Chapman will:

- Attempt to surge, pump, and air clear sediment and debris from the bottom of the well and to redevelop it. We assume that groundwater in this well is not contaminated above the GWQC

and therefore that water can be discharged to the ground surface around the well and does not have to be collected and containerized.

- Manually excavate (as noted previously, the inner casing appears to be broken off at or near grade) down to the point the inner casing is broken, cut it, and replace the broken section to approximately 2 feet above grade with new locking plug and padlock.
- Install a new 6" steel outer protective casing and concrete pad.

Regarding MW-7, this well was part of a triplet (MW-7I and MW-7D are the other 2 wells) installed in 2010 and is presently missing, and its status is unclear. Per the 2010 record (attached) MW-7 is (or was) 28 feet deep with groundwater at 15 feet below grade. For costing purposes and timing requirements, it is assumed that this well will not be located within the time frame that next full quarter of groundwater monitoring needs to be completed (i.e., by September 30, 2020), and will therefore be replaced.

Specifically, Chapman will:

- Prepare and submit via the online service an application to NJDEP for a permit to drill the well, along with the required permit fee. It will be designated MW-7R.
- Install a 2" PVC well to 30 feet below grade via hollow stem augers. There will be 20 feet of 0.010 slot screen and sand pack of No.1 sand to between 2 and 5 above the screen and annular seal of bentonite chips thereafter. Casing will extend to 2' above grade. We assume that cutting will not be contaminated and can be spread on the ground in the vicinity of the well location, rather than drummed or placed on and covered with plastic sheeting.
- Develop the well for 1 hr., 55 gallons are removed, or a turbidity free discharge is achieved, whichever occurs first. We assume that groundwater in this well is not contaminated above the GWQC and therefore that water can be discharged to the ground surface around the well and does not have to be collected and containerized.
- Finish the well with locking plug and padlock and 6" steel stickup-type outer protective casing, similar to the other onsite wells, and concrete pad. If the well is in an area where it is likely to be damaged by vehicular traffic, we suggest that a flush-mounted protective casing be installed instead. For this proposal there will be no cost differential.
- GPS locate and prepare and submit via the online service a well record to NJDEP.

It should be noted that, if the well cannot be readily located via, for example, survey, additional efforts will need to be completed to further try locate MW-7 such as GPR, shallow excavation, etc. and either properly decommission if it, or document that it is destroyed and cannot be located, as far as NJDEP is concerned. If MW-7 is located the proposed replacement will not be completed as an attempt could be made to repair it, similarly to MW-5. The additional well location/decommissioning/repair activities if/as needed, are outside the scope of this proposal, and a separate proposed SOW and cost would be submitted.

Methane Vent (GV-19)

This methane gas vent based on NJDEP records is 4" in diameter and is 28.5 feet deep. This methane vent is damaged. The galvanized pipe protective casing is pushed over onto its side, which appears to be catastrophic near surface damage, but depending on how deep the galvanized pipe extends, the rest of the vent well may largely be intact, or at least salvageable. Based on vent construction records, and the concept construction plan for the gas vent wells, it is presumed that there is a concrete collar below grade at the top of landfill waste but below somewhere between 2 and 5 feet of final cover, and the galvanized pipe is not set into this collar. The inner 4" PVC casing is likely broken at or the collar. As a cost-effective initial approach, we propose to attempt to repair, rather than replace, this well.

Specifically, Chapman will:

- Excavate (as noted previously, the inner casing is possibly broken off at or near a concrete collar below grade) down to the point the inner casing is broken, cut it, install a coupling, and replace the broken section of 4" PVC to approximately 8 above grade (per the concept plan for the gas vent wells). A T-fitting will be placed on top of the casing.
- Finish the well with by installing a new 12" galvanized culvert pipe outer protective casing.

If vent casing damage is found to extend into landfill material below the concrete collar it may not be possible to repair the well, and it will need to be replaced. The replacement activities if/as needed, are outside the scope of this proposal, and a separate proposed SOW and cost would be submitted.

Task 3: Survey and Completion of NJDEP "Form Bs"

Since the pads, top of inner casings, and outer protective casings of MW-5 and GV-19 will be replaced their elevations will change, and since a replacement well for MW-7 will be installed, the corresponding NJDEP Form Bs will need to be amended. Accordingly, a New Jersey licensed surveyor will be retained to re-survey the elevations of the ground, inner PVC, and outer protective steel casings, as applicable, and prepare the Form Bs. Unlike Well Records, Form Bs are submitted with reports rather than to BWA and therefore will be provided to the Site Engineer for their reporting purposes.

FEES

Our fees for the above-described scope of services would be provided on a percent complete basis in accordance with the existing terms of the current City contract and RFP. Invoices for our services will be submitted in accordance with the City of Vineland's existing invoicing procedures.

City of Vineland	
Methane Sampling, Groundwater Monitoring Well & Methane Vent Repair Services	
Task 1: Methane Monitoring for NJDEP Air Permit Compliance <ul style="list-style-type: none"> ○ Install sampling ports on all vertical passive methane vents at 44 large interior vents. Seal port when complete. ○ Use in-line small bore pilot tube to measure flow rate in m3/hr and measure % methane. ○ Report H2S results in PPM and CFM along with baseline readings from the GEM5000 for air permit calculation purposes. ○ Letter report detailing sampling methodology and results ○ All equipment consumables, rentals and incidentals are included. 	\$4,600.00
Task 2: Monitoring Well & Methane Vent Repair/Replacement <ul style="list-style-type: none"> ○ Surge, pump, clean and repair MW-5 ○ Repair or Replace MW-7 ○ Replace Methane Vent GV-19 ○ Including all equipment, materials, Licensed Driller Services, Geoprobe Unit, Compressor Air Knife, Well Construction Supplies and heavy equipment ○ NJDEP Permit Fees included 	\$10,750.00
Task 3: Professional Well Survey & NJDEP Reporting <ul style="list-style-type: none"> ○ Including Licensed Surveyor, NJDEP Reporting & Project Summary Report to Client. 	\$3,500.00
Total	\$18,850.00

ASSUMPTIONS / LIMITATIONS

1. Any permitting or registration fees due to the Regulatory Agency reviewing and approving all submitted permits are the responsibility of the client unless specifically noted above.
2. Chapman will rely on the accuracy of any information submitted to us by the Client in the performance of our services and will not be held responsible for errors or inaccuracies contained in information provided to us.
3. The scope of services detailed above do not include the permitting of new equipment or discovered equipment unless specifically detailed. In addition, the scope of services as presented does not include any additional follow-up requirements from a regulatory agency to the extent which may include additional calculations, recordkeeping or inspections, unless specifically detailed.
4. If our activities indicate areas of significant health, safety or environmental concern, the scope of work outlined above may need to be expanded as appropriate. We would notify you as soon as possible if potentially significant areas of concern are encountered.
5. Chapman shall be responsible only for its activities and that of its employees on any site. Neither the professional activities nor the presence of Chapman or its employees or subcontractors on a site shall imply that Chapman controls the operations of others.